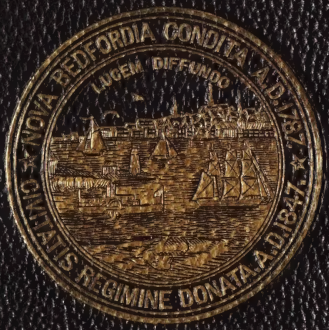
NOVA BEDFORDIA CONDITA A.D. 1787
LUCEM DIFFUNDO
CIVITATIS REGIMINE DONATA A.D. 1847

CITY DOCUMENTS.

MAYOR'S ADDRESS

TO THE CITY COUNCIL,

CITY GOVERNMENT,

ANNUAL REPORTS, ETC.,

For the Year 1889-90.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS,
1890.

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1890 — CITY DOCUMENT No. 1.

ADDRESS

OF

WALTER CLIFFORD,

Mayor of New Bedford,

TO THE

City Council,

January 6, 1890.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS.
1890.

ADDRESS.

Gentlemen of the City Council:

Not in the interest of factions nor to serve the ends of party, but solely as the representatives of the whole people of New Bedford, have we gathered in this time-honored hall to pledge to the service of our fellow-citizens our best efforts to promote the common welfare, and to formally enter upon the discharge of the important and manifold duties which have been assigned to us.

Let it be ever remembered that the solemn obligation we have this day publicly assumed can only be fully and faithfully discharged by testing in the spirit of that pledge every public question that may be submitted to us during the coming year, and by turning a deaf ear to the whisperings of personal ambition and private gain, to listen only to the voice that speaks for the public good.

The constant increase in the number and varied character of our population, the growing magnitude of our manufacturing interests, and the ever recurring demands upon the city for speedy and costly improvements, all impose upon us a corresponding degree of vigilance and watchful care in the performance of our several duties, that the prosperity already attained may suffer no diminution while

intrusted to our care, but rather that the record of our stewardship may be one of both moral and material progress, and unmistakably declare at its close the substantial fulfilment of the brightest promise of to-day.

With the limitation placed by law upon the city's income on the one hand, and the evident wisdom of providing for such expenditures as are necessary to keep pace with the development and encouragement of new industries on the other, only the most intelligent treatment of the city's finances and a clear understanding of their condition on the part of every member of the government, will prevent us from drifting dangerously near the reef of the debt limit on which already so many of our sister cities have stranded.

To aid you so far as I may, I beg to call your attention to a brief outline of the results of the past year's work, and to the present condition of some of the principal departments of the city.

FINANCIAL.

The following statement of the city finances, which has been kindly prepared for me by the City Treasurer and Collector of Taxes, represents very clearly our condition this day.

The first and most important item to be considered is the principal source of our revenue, viz. :

TAXES.

Assessments for the year :

State tax,	$34,700.00
County tax,	51,476.17

City appropriations,	508,600.00
Overlay,	17,642.92
	$612,419.09
Collections,	593,069.18
Balance uncollected,	$19,349.91

The credits to the Collector are as follows:

Paid State tax,	$34,700.00
Paid County tax,	51,476.17
Paid City Treasurer,	476,760.93
Discount and abatements,	30,132.08
Total credits,	$593,069.18

But $\frac{3}{16}$ per cent. of the whole assessment of 1889 remains unpaid at this date.

The State and County taxes, as usual, were large, amounting in the aggregate to $86,176.17, nearly one-seventh of the whole assessment for the year, with no prospect of a change for the better in the future.

Of the taxes of 1888 and previous years, the collections amounted to $11,206.19.

The net amount paid by the national banks of the city for taxes of 1889 was $88,908.89, $44,457.31 of which was paid to the State Treasurer, and the balance, $44,451.58, was included in the receipts of the Collector of Taxes, as given above.

The receipts from the Commonwealth were as follows:

Corporation taxes of 1888,	$650.28
Corporation taxes of 1889,	63,006.35
Tax from national banks out of the city,	3,269.02
Tax on ships in foreign trade,	1,648.98
Total,	$68,574.63

RECEIPTS AND EXPENDITURES.

The receipts and expenditures the past year, including balance of cash in the treasury, January 7, 1889, have been as follows:

Balance, January 7, 1889,		$39,825.06
Receipts from Collector of Taxes:		
Taxes, 1889,	$476,760.93	
Taxes, 1888,	7,018.90	
Taxes, 1887,	3,960.62	
Taxes, 1886,	85.40	
Taxes, 1885,	42.53	
Taxes, 1884,	94.09	
Taxes, 1883,	4.65	
Received from other sources,	836,701.16	1,324,668.28
Total receipts, including balance,		$1,364,493.34
Expenditures, as per warrants of Mayor,		1,338,867.91
Balance, January 6, 1890,		$25,625.43

The receipts for water rates are included in the foregoing statement.

Amount received for rates for year ending July, 1890,	$56,053.86
Amount received for rates for year ending July, 1888,	48,737.61
Increase,	$7,316.25

APPROPRIATIONS.

The appropriations for the past year have been as follows:

General appropriations,		$538,600.00
Special appropriations:		
Cemeteries,	$1,000.00	
City stable and lot,	903.61	
Commonwealth, chap. 298,	250.00	
Dartmouth Street school-house extension,	13,000.00	
Division Street school-house lot,	6,000.00	
Engine-house and lot, Durfee street,	13,200.00	
Engine-house No. 5, alterations,	3,500.00	
Harrington school-house and lot,	6,205.27	

New Bedford & Fairhaven bridge,	5,300.00	
Poor Department,	3,000.00	
Printing, binding, and stationery,	1,000.00	
Public schools, incidentals,	6,900.00	
Public schools, pay of teachers,	900.00	
Public schools, repairs of buildings,	2,750.00	
School-house, Head of River,	6,790.00	
Truant school,	500.00	
Sewers, general repairs,	25,000.00	
Sewers, construction account,	38,295.68	134,494.56
Total amount of appropriations for 1889,		$675,094.56
Special appropriations as above,		$134,494.56
Less amount of unappropriated funds,	$56,654.09	
Corporation taxes due,	5,000.00	61,654.09
Net special appropriations, 1889,		$72,840.47
Special appropriations, 1888, unprovided for,		20,989.32
Amount to be provided for, 1890,		$93,829.79

MUNICIPAL DEBT.

The debt of the city at this date is as follows:

Water bonds, 7s,	$130,000.00	
Water bonds, 6s,	300,000.00	
Water bonds, 5s,	100,000.00	
Water bonds, 4s,	120,000.00	$650,000.00
Bridge bonds, 6s,	5,000.00	
Sewer bonds, 4s,	98,000.00	
Sewer bonds, 3½s,	75,000.00	
Improvement bonds, 6s,	223,000.00	
Improvement bonds, 4s,	77,000.00	
Improvement bonds, 3½s,	140,000.00	618,000.00
Bonds outstanding,		$1,268,000.00

The trust funds are as follows:

Sylvia Ann Howland bequest,	$100,000.00	
George O. Crocker bequest,	10,000.00	
Library funds, other than above,	4,100.00	
Cemetery funds for care of lots,	10,349.93	
Jonathan Bourne school fund,	1,000.00	125,449.93
		$1,393,449.93
Temporary debt,		90,000.00
Total debt,		$1,483,449.93

DEDUCTIONS.

Balance of cash, Jan. 6, 1890,	$25,625.43	
Amount due from State for military aid,	7,695.32	
Amount due from State, balance of corporation tax, 1889,	5,000.00	
Taxes collectable,	17,600.00	
Sewer taxes due,	8,500.00	
Sinking funds,	80,454.75	144,875.50
Net debt at this date,		$1,338,574.43

The issue of bonds, April 1, 1889, was as follows:

Sewer bonds, 4s,		$43,000.00
Improvement bonds, 4s,		62,000.00
		$105,000.00
Payment of water bonds, 7s,	$10,000.00	
Payment of water bonds, 6s,	20,000.00	
Payment of bridge bonds, 6s,	5,000.00	
Payment of sewer bonds, 4s,	10,000.00	45,000.00
Increase in bonded debt,		$60,000.00
Present city debt, as above,		$1,338,574.43
Net debt, January 7, 1889,		1,335,792.89
Increase since January 7, 1889,		$2,781.54

The average tax value of the city for the past three years is $33,301,173; $2\frac{1}{2}$ per cent. of this sum gives as our debt limit under the present law of the State, $832,529.32, this being the limit exclusive of water debt.

Net debt, Jan. 6, 1890,		$1,338,574.43
Water bonds,	$650,000.00	
Trust funds invested in Water Works,	100,000.00	750,000.00
Net debt, exclusive of water debt,		$588,574.43
Present debt limit,		$832,529.32
Net debt, as above, other than water debt,		588,574.43
Amount short of limit,		$243,954.89

The average tax value of the city at this time being $33,301,173, appropriations for city purposes can be made

at $12 per $1000, amounting to $399,615 ; this is exclusive of sum required for State and County taxes and sums required for public debt.

The following summary shows the increase in city debt compared with that made during the previous year :

Increase in bonds,		$60,000.00
Increase in trust funds,		3,285.00
		$63,285.00
Balance trust funds, &c., 1890,	$144,875.50	
Balance trust funds, &c., 1889,	119,372.04	
Increase in amount deducted,	$25,503.46	
Decrease temporary loan,	35,000.00	60,503.46
Increase in net debt,		$2,781.54
Increase in net debt, January, 1889,		$78,111.03
Increase in net debt, January, 1890,		2,781.54
Difference in increase of net debt,		$75,329.49

SCHOOLS.

The policy of the administration toward the School department during the past year has been characterized by a spirit of liberality that testifies to its appreciation of the importance of maintaining the high degree of efficiency for which our schools are already so justly celebrated, and of supplying every possible educational advantage to those who are hereafter to play a part in controlling the destinies of the country.

The completion of the Harrington Memorial schoolhouse, the enlargement of that on Dartmouth street, and the erection of the new house at Acushnet, together with the improvements in heating and ventilation made elsewhere, have done much toward providing suitable and healthful accommodations for the ever-increasing number

of pupils; but I believe the limit of necessity has not yet been reached, and that additional accommodations should be provided by the erection as early as practicable of a new school-house on the Division street lot, purchased the past year for that purpose.

WATER WORKS.

There is, perhaps, no department more closely allied to the prosperity of our city than this; for without an abundant supply of water our varied industries, bringing in their train increase of wealth and encouragement to trade, would doubtless never have appeared.

The untiring fidelity to the interests of the city with which its affairs have been managed, and the wisdom of the methods and policy pursued, are demonstrated by the results accomplished, and which are set forth in detail in the report which will soon be submitted to you.

The consumption is still on the increase, and during the month of July, on several days, reached the unprecedented figure of over 5,000,000 gallons.

During the quarter ending September 30th, about 110,000,000 gallons were metered out to our large mills, which is almost one-third of the total consumption for that period. This wholly disproportionate use of water by our mills is due to the fact that, although the actual cost of delivering each 1000 gallons is 12 cents, the rate fixed by the City Council for manufacturing corporations to pay is but $2\frac{1}{2}$ cents, and the difference has to be made up by the taxpayers in the general levy; whereas if the department could only receive from corporations the actual cost of de-

livery I believe it would be self-sustaining, and the city be relieved from a large annual burden.

BOARD OF PUBLIC WORKS.

The recommendation to the City Council made a year ago with reference to the management of the Street department resulted in an act of the Legislature creating a Board of Public Works, to which was transferred all the authority previously vested in the Board of Aldermen in the construction of sewers and the general management of the Street department.

This Board, consisting of three members, entered upon its duties May 1st, and by the introduction of business methods, the exercise of sound judgment, and a loyal devotion to the interests of the city, has produced results which clearly demonstrate the wisdom of the change, and mark a new era in the management of city affairs.

Although necessarily unfamiliar with the details of the year's work, yet I gather from the advance sheets of the Superintendent's report the fact that with an appropriation of $78,000, partly expended by the Board of Aldermen, the Board will close the accounts of the year with all its bills paid, about $1500 worth of material on hand ready for the coming season, without having had to call for a special appropriation, (which is without precedent since 1883,) and having accomplished an amount of work that in quantity and quality will compare favorably with any previous year.

Without intending to suggest that the efficiency or success of the Board would thereby be enhanced, but rather

with a view to continuing what seems to be a principle of our municipal government, I recommend to your consideration the wisdom of making the Mayor *ex-officio* one of its members, and of petitioning the Legislature for an amendment of the law creating the Board to accomplish that result.

FIRE DEPARTMENT.

The efficiency of this department has been greatly increased during the past year by the introduction of an increased number of fire alarm circuits and an improved apparatus for determining the condition of the wires and the location of fires.

Yet it should ever be borne in mind that our location as a city compels us to look only to our own department for safety; and this, in connection with the lesson taught by the recent disasters at Lynn and Boston, should teach us to adopt a policy which will look to saving the department from ever being put to a severe test of its efficiency.

POOR DEPARTMENT.

The best proof of the wisdom of the change made in this department during the past year is its record.

An examination of its report, which you will soon receive, will show that while there has been a slight increase in the amount of its expenditures, it is not larger than would necessarily follow from the increase in our population, and includes the payment of a coal bill of $1148, which was carried over from last year and not included in the last report.

When in addition to the businesslike administration of

its finances we find the trying duties of this Board performed with so kindly a sympathy for the poor and unfortunate as to effectually put an end to all complaints, which is the record of the present administration, I think I may safely congratulate the people of New Bedford on the present condition of the Poor department, and look forward with trust and confidence to the story that the coming year will tell.

POLICE.

The rapid spread in the limits of the territory requiring police protection presents a question as to the management of this department which should receive careful consideration at your hands.

Under the able management of the present Chief I believe the general efficiency of the force has been greatly increased, and the discipline much improved. Yet I also believe, from the experience of the past year, that the time is near at hand when a radical change in the number and location of our station-houses, with perhaps a corresponding increase in the force, will be necessary to properly meet the demands of the people, unless one of the systems of police signal service be introduced in its stead, and I earnestly recommend to you the early consideration of this subject.

I also believe the best results can never be accomplished by our police force until the Chief of Police, who is now exempt from the operation of the Civil Service rules, be placed upon the same footing as the patrolmen as to the tenure of his office, and I would therefore recommend

that the Legislature be asked to amend Chapter 92 of the Acts of 1876, to accomplish this result.

LIQUOR LICENSES.

The system of high license, which first went into effect last May, has been proved to be the best method yet put in operation for regulating and controlling the liquor traffic in a city of our size. The results already accomplished during its operation are most encouraging to all those who see in the first steps of progress a justification for their belief in a larger success in the future, and I most earnestly renew my pledge of a year ago to exercise the power of my office to realize that larger success in the suppression of the illegal sales of intoxicating liquor in the year to come.

SANITARY.

The prejudice against the reforms introduced by the Board of Health, which in its early history was so great as to greatly hamper its operations, has by a most able and judicious management been practically overcome, and the large majority of our citizens now fully realize the incalculable benefits which have resulted from the policy pursued, and will cheerfully indorse any action by which you may seek to add to the efficiency of this department.

CONCLUSION.

Although many of us enter upon our duties with some experience and information as to the needs of the city, yet I would urge upon you the careful study of the reports of each department as you receive them, from which alone

can be gained that exact knowledge which is so necessary to intelligent legislation.

For the loyal support given me by both branches of the government during the past year, I desire to publicly express my heartfelt gratitude; and in the hope that the same spirit of forbearance for my shortcomings and that spirit of harmony, without which the best results can never be attained, will characterize our deliberations during the coming year, I look forward with confidence to an administration of the city's affairs which will be creditable to us and justify the hopes of our fellow-citizens, from whom we receive this trust.

CITY GOVERNMENT.
1890.

MAYOR.

HON. WALTER CLIFFORD.

ALDERMEN.

Ward 1 — LUTHER G. HEWINS, JR.
Ward 2 — CHARLES F. SHAW.
Ward 3 — BENJAMIN F. BROWNELL.
Ward 4 — STEPHEN A. BROWNELL.
Ward 5 — JAMES DELANO.
Ward 6 — EZEKIEL C. GARDINER.

CITY CLERK.

DANIEL B. LEONARD.

CITY TREASURER AND COLLECTOR OF TAXES.

JAMES H. HATHAWAY.

CITY AUDITOR.

WILLIAM B. TOPHAM.

CITY MESSENGER.

AUGUSTUS D. PIPER.

COMMON COUNCIL.

PRESIDENT — WILLIAM A. TUCKER.

Ward One.

JAMES H. BAMFORD,
FRANK B. CARR,
JOSEPH DAWSON,
PETER F. SULLIVAN.

Ward Two.

WILLIAM L. G. BROWN,
LOUM H. FAUNCE,
HARRY C. JENNEY,
JAMES McFARLIN.

Ward Three.

JOHN A. GOMLEY,
JOHN H. BARROWS,
FRANK C. BARROWS,
SAMUEL H. PERRY.

Ward Four.

WILLIAM A. TUCKER,
WILLIAM G. KIRSCHBAUM,
THOMAS D. DEXTER,
CHARLES H. VINAL.

Ward Five.

WILLIAM A. CHURCH,
ELIOT D. STETSON,
EDWARD S. HASKELL,
JAMES A. TAYLOR.

Ward Six.

WILLIAM H. RANKIN,
GEORGE W. PARKER,
WILLIAM H. MULLEN,
SAMUEL HARRISON.

CLERK — WILLIAM A. MACKIE.

STANDING COMMITTEES OF THE BOARD OF MAYOR AND ALDERMEN.

Police—The Mayor, Aldermen Delano and B. F. Brownell.
Licenses—Aldermen Delano, Shaw, and B. F. Brownell.
Burial Grounds—Aldermen Hewins, S. A. Brownell, and Gardiner.
Enrollment—Aldermen Gardiner, Hewins, and S. A. Brownell.
Soldiers' Aid—The Mayor, Aldermen Shaw and Gardiner.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

Finance—The Mayor, Alderman Hewins, the President of the Common Council, and Councilmen Carr, Faunce, Perry, Church, and Parker.

Audit—Aldermen Shaw and Hewins and Councilmen J. H. Barrows, Rankin, and Vinal.

City Property—Aldermen Delano and B. F. Brownell and Councilmen F. C. Barrows, Kirschbaum, and Haskell.

Fuel—The Mayor and Alderman Hewins and Councilmen J. H. Barrows, Jenney, and Carr.

Education—Aldermen Hewins and Shaw and Councilmen Rankin, Taylor, and Kirschbaum.

Fire Department—Aldermen Delano and S. A. Brownell and Councilmen Jenney, Church, and Sullivan.

Roads, Bridges, and Sewers—Aldermen S. A. Brownell and Hewins and Councilmen Faunce, Brown, and McFarlin.

Charities, Alms House, and the Poor—Aldermen S. A. Brownell and B. F. Brownell and Councilmen Bamford, Mullen, and Harrison.

Street Lights—Aldermen Shaw and S. A. Brownell and Councilmen Brown, Gomley, and Dexter.

Printing—Alderman Delano and Councilmen Stetson and Perry.

Buildings in the Fire District—Aldermen B. F. Brownell and Gardiner and Councilmen Rankin, Haskell, and Mullen.

Armories and Military Property—Aldermen Gardiner and Hewins and Councilmen F. C. Barrows, Faunce, and Harrison.

Water Works and Water Supply—Aldermen Shaw and Delano and Councilmen Stetson, Church, and Parker.

Claims—Aldermen B. F. Brownell and Gardiner and Councilmen Stetson, Taylor, and Dawson.

Ordinances—Aldermen S. A. Brownell and B. F. Brownell and Councilmen Parker, Vinal, and Dawson.

STANDING COMMITTEES OF THE COMMON COUNCIL.

Elections and Returns—Councilmen Dexter, McFarlin, and Mullen.

Bills in Second Reading—Councilmen Kirschbaum, Harrison, and Bamford.

Enrolled Ordinances and Resolutions—Councilmen J. H. Barrows, Gomley, and Sullivan.

ASSESSORS.

Office, Library Building, Room 6.

CHARLES D. TUELL, Chairman, 3 years.
WILLIAM A. RUSSELL, 2 years. JOHN A. RUGGLES, 1 year.

ASSISTANT ASSESSORS.

Ward 1—JAMES SLATER.
Ward 2—GEORGE W. PERRY.
Ward 3—HENRY C. RUSSELL.
Ward 4—MARSHALL T. MILLS.
Ward 5—JOHN D. RODGERS.
Ward 6—FRANK PAUL.

BOARD OF HEALTH.

Office, City Hall Building.

NATHANIEL HATHAWAY,	Term expires February, 1891.
WILLIAM N. SWIFT,	Term expires February, 1892.
THOMAS W. COOK,	Term expires February, 1892.

NATHANIEL HATHAWAY, Chairman.

WILLIAM N. SWIFT, City Physician and Quarantine Physician.

The City Physician is *ex officio* a member of the Board.

HEALTH INSPECTOR.

WILLIAM E. MACOMBER.

INSPECTOR OF PLUMBING.

LOUIS H. RICHARDSON.

NEW BEDFORD WATER WORKS.

NEW BEDFORD WATER BOARD.

His Honor WALTER CLIFFORD, Mayor, *ex officio* President.

WILLIAM A. TUCKER, President of the Common Council, *ex officio*.

HENRY HOWARD,	Term expires June, 1891.
DAVID B. KEMPTON,	Term expires June, 1892.
WILLIAM N. CHURCH,	Term expires June, 1893.

CLERK.

ROBERT C. P. COGGESHALL.

WATER REGISTRAR.

JAMES H. HATHAWAY.

Office, Room 2, Library Building.

SUPERINTENDENT.

ROBERT C. P. COGGESHALL.

Office, City Hall Building.

INSPECTOR.

CLIFFORD BAYLIES.

Office, Room 2, Library Building.

COMMISSIONERS OF SINKING FUND.

WILLIAM A. CHURCH,	Term expires March, 1891.
WILLIAM H. MATHEWS,	Term expires March, 1892.
ISAAC W. BENJAMIN,	Term expires March, 1893.

ISAAC W. BENJAMIN, Chairman.

JAMES H. HATHAWAY, Secretary and Treasurer.

OVERSEERS OF THE POOR.

WILLIAM H. MATHEWS,	Term expires May 1, 1891.
ORRICK SMALLEY,	Term expires May 1, 1892.
THOMAS H. KNOWLES,	Term expires May 1, 1893.

Secretary—ORRICK SMALLEY.
Assistant—ELLA F. BUCKLIN.
Supt. of Almshouse—PELEG S. MACY.
Physician—EDWARD E. WAITE.

FREE PUBLIC LIBRARY.

TRUSTEES.

Ex officio. Term expires January, 1890.

WALTER CLIFFORD, Mayor of the City.
WILLIAM A. TUCKER, President of the Common Council.
LUTHER G. HEWINS, JR., Alderman, and Chairman of the Committee of the City Council on Education.

Elected by the City Council.

ISAAC B. TOMPKINS, JR.,	Term expires April, 1891.
MATTHEW C. JULIEN,	Term expires April, 1891.
ARTHUR G. GRINNELL,	Term expires April, 1892.
LEONARD B. ELLIS,	Term expires April, 1892.
GEORGE H. DUNBAR,	Term expires April, 1893.
GEORGE HOWLAND, JR.,	Term expires April, 1893.

PRESIDENT OF THE BOARD.

THE MAYOR.

CLERK.

GEORGE H. DUNBAR.

COMMITTEES.

On the Library—The Mayor, and Messrs. Howland, Tucker, and Julien.
On the Building—Messrs. Tompkins, Hewins, and Ellis.
On Binding and Blanks—Messrs. Dunbar and Grinnell.

SUPERINTENDENT OF THE LIBRARY.

GEORGE H. DUNBAR.

LIBRARIAN.

ROBERT C. INGRAHAM.

ASSISTANT LIBRARIAN.

WILLIAM L. R. GIFFORD.

ASSISTANTS.

JOSEPHINE A. MERRICK, MARY E. BROWN,
SUSIE H. GAMMONS.

JANITOR.

YORICK W. AMES.

BOARD OF PUBLIC WORKS.

Office, Library Building.

EDMUND WOOD,	Term expires May 1, 1891.
MORGAN ROTCH,	Term expires May 1, 1892.
DAVID L. PARKER,	Term expires May 1, 1893.

MORGAN ROTCH, Chairman.
DANIEL B. LEONARD, Clerk.
ALBERT B. DRAKE, Superintendent.

SUPERINTENDENT OF BRIDGE, AND DRAW TENDER.

JOHN B. NICHOLSON.

CITY SOLICITOR.

LEMUEL LE B. HOLMES.

SUPERINTENDENT OF BURIAL GROUNDS.

WILLIAM SANDERS.

Office at Sanders & Barrows, 67 & 69 William street.

SEALER OF WEIGHTS AND MEASURES.

WILLIAM R. SHERMAN.

INSPECTOR OF BUILDINGS.

FREDERICK MACY.

SUPERINTENDENT OF CITY CLOCK.

JAMES S. KELLEY.

CITY BELL RINGER.

ISAAC BARNES.

CITY LAND SURVEYOR.

ALBERT B. DRAKE.

HARBOR MASTER.

HENRY L. PITMAN.

INSPECTOR OF PETROLEUM AND VINEGAR.

HARRISON DELANO.

Office, No. 17 Middle street.

INSPECTOR OF MILK, PROVISIONS, AND ANIMALS INTENDED FOR SLAUGHTER.

DANIEL C. ASHLEY.

Office, No. 46 North Second street.

REGISTRARS OF VOTERS.

THOMAS F. DESMOND, Term expires May, 1891.
EMANUEL SULLAVOU, Term expires May, 1892.
HERBERT A. BLACKMER, Term expires May, 1893.
DANIEL B. LEONARD, City Clerk, *ex officio*.

Office, Basement City Hall Building.

PRECINCT OFFICERS.

Term of office expires Nov. 1, 1890.

WARD 1, PRECINCT 1.

Warden, WILLIAM J. ARIGAN, D.
Clerk, WARREN P. TOBEY, R.
Inspector, WILLIAM J. HOYLE, D.
" EDGAR F. TRIPP, R.
" JOSEPH H. SULLIVAN, D.
" JOHN F. KIRK, R.

Deputies.

Warden, MAURICE C. DAHILL, D.
Clerk, EDGAR H. GAMMONS, R.
Inspector, EDWARD F. MURPHY, D.
" WILLIAM BAMFORD, R.
" STEPHEN FINNELL, D.
" A. DAVIS ASHLEY, R.

WARD 1, PRECINCT 2.

Warden, GEORGE P. MACOMBER, R.
Clerk, JOHN N. O'BRIEN, D.
Inspector, GEORGE B. BORDEN, R.
" DANIEL J. SULLIVAN, D.
" GEORGE W. HILLMAN, R.
" DANIEL F. DRISCOLL, D.

Deputies.

Warden, GEORGE E. SAXON, R.
Clerk, THOMAS F. O'NEIL, D.
Inspector, JAMES H. SAXON, R.
" THOMAS BOARDMAN, D.
" JOHN SAXBY, R.
" JOSEPH T. SMITH, D.

WARD 2, PRECINCT 3.

Warden, JACOB B. HADLEY, D.
Clerk, MYRON W. BROWNELL, R.
Inspector, GEORGE T. HADLEY, D.
" STEPHEN HAFFORD, JR., R.
" DAVID B. PIERCE, D.
" THOMAS C. ROBBINS, R.

Deputies.

Warden, CHARLES A. CASE, D.
Clerk, CHARLES T. BURGESS, R.
Inspector, JAMES L. HATHAWAY, D.
" CHARLES L. FAUNCE, R.
" HENRY FIELD, JR., D.
" ARTHUR A. DEXTER, R.

WARD 2, PRECINCT 4.

Warden, GEORGE K. DAMMON, R.
Clerk, J. FRANKLIN KEENE, D.
Inspector, DAVID S. SMALL, R.
" JOSEPH P. CLARK, D.
" SAMUEL R. BROWNELL, R.
" ASA L. H. ALLEN, D.

Deputies.

Warden, STEPHEN F. ADAMS, R.
Clerk, EDWARD H. FIELD, D.
Inspector, PHILIP R. KING, R.
" MOSES C. DREW, D.
" IRA S. NEGUS, R.
" CHARLES L. CHURCH, D.

WARD 3, PRECINCT 5.

Warden, JAMES C. STAFFORD, D.
Clerk, JAMES D. ALLEN, R.
Inspector, HENRY F. HAMMOND, D.
" WILLIAM T. CASWELL, R.
" JOHN NOTTER, D.
" WILLIAM M. HIGHAM, R.

Deputies.

Warden, HORATIO G. DEAN, D.
Clerk, CHARLES H. ADAMS, R.
Inspector, CHARLES T. LUCE, D.
" AUGUSTINE F. CHILDS, R.
" HARRY M. CHURCH, D.
" LYCURGUS H. HOWLAND, R.

WARD 3, PRECINCT 6.

Warden, ALBERT H. W. CARPENTER, D.
Clerk, B. FRANKLIN WORDELL, R.
Inspector, STEPHEN W. McFARLIN, D.
" BENJAMIN F. JENNEY, R.
" K. CLIFTON TERRY, D.
" EDWARD T. SHERMAN, R.

Deputies.

Warden, EDWARD S. RUSSELL, D.
Clerk, CHARLES L. PAINE, R.
Inspector, CHARLES W. HOWLAND, D.
" THOMAS H. FORBES, R.
" ANDREW MITCHELL, D.
" WILLIAM E. CARROLL, R.

WARD 4, PRECINCT 7.

Warden, WILLIAM B. TOPHAM, R.
Clerk, WALTER R. MYRICK, D.
Inspector, AUGUSTUS D. PIPER, R.
" GEORGE P. GIFFORD, D.
" FRED D. BARROWS, R.
" GEORGE S. HOYT, D.

Deputies.

Warden, JAMES B. RUSSELL, R.
Clerk, WILLIAM L. R. GIFFORD, D.
Inspector.
" GEORGE R. YOUNG, D.
" HORACE TILDEN, R.
" GEORGE M. WOOD, D.

WARD 5, PRECINCT 8.

Warden, ROBERT G. TOBEY, D.
Clerk, JOHN K. McAFEE, R.
Inspector, GEORGE P. RICHARDSON, D.
" ARTHUR C. SPOONER, R.
" ISAAC C. SHERMAN, D.
" ROBERT R. TOPHAM, R.

Deputies.

Warden, HUGH J. McDONALD, D.
Clerk, STEPHEN CROWELL, R.
Inspector, THOMAS J. PEED, D.
" ORRICK SMALLEY, JR., R.
" THOMAS A. CODD, D.
" GEORGE F. COLE, R.

WARD 5, PRECINCT 9.

Warden, HENRY S. SWAIN, R.
Clerk, HENRY A. GRAY, D.
Inspector, DAVID M. PIPER, R.
" DAVID H. MORRISSEY, D.
" FREDERICK B. COOK, R.
" CHARLES S. BAYLIES, D.

Deputies.

Warden, FRANCIS A. BOOTH, R.
Clerk, WILLIAM C. KENNEDY, D.
Inspector, JOHN C. EMERY, R.
" AUGUSTUS M. KENNEDY, D.
" JAMES H. MAGNETT, R.
" ROBERT L. BAYLIES, D.

WARD 6, PRECINCT 10.

Warden, CHARLES F. BRIGGS, R.
Clerk, LEANDER A. WILLISTON, D.
Inspector, GEORGE F. CURRY, R.
" FRANK CROACHER, D.
" WILLIAM F. CASWELL, R.
" FRANK G. TABER, D.

Deputies.

Warden, HERBERT S. PEIRCE, R.
Clerk, JOHN W. DONAGHY, D.
Inspector, GEORGE F. SAWIN, R.
" THOMAS J. MEANEY, D.
" ROLAND R. ASHLEY, R.
" FRANK P. P. TUELL, D.

WARD 6, PRECINCT 11.

Warden, HERBERT B. GARDNER, R.
Clerk, N. HERBERT GREENE, D.
Inspector, WILLIAM W. BONNEY, R.
" WILLIAM N. NELSON, D.
" HENRY B. WORTH, R.
" GIDEON D. POPPLE, D.

Deputies.

Warden, AMOS W. HADLEY, R.
Clerk, JAMES P. TAYLOR, D.
Inspector, MARSHALL S. GREENE, R.
" E. EDWARD ENOS, D.
" ANDERSON H. SWIFT, R.
" GEORGE L. JENNINGS, D.

VOTING PRECINCTS.

WARD ONE.

Precinct 1. All that portion of said ward lying northerly of a line drawn through the centre of Cedar Grove, Purchase, Linden, Ashland, and Durfee streets, thence continuing in a straight line to the boundary line between the town of Dartmouth and the city of New Bedford.

Voting place, Ward room, corner of Weld and Bowditch streets.

Precinct 2. All that portion of said ward lying southerly of the aforesaid division line.

Voting place, Howland Chapel, 588 Purchase street.

WARD TWO.

Precinct 3. All that portion of said ward lying east of a line drawn through the centre of Thomas, Sycamore, and County streets, to a point at the intersection of a line formed by the extension of a line through the centre of Franklin street.

Voting place, Ward room on Willis street.

Precinct 4. All that portion of said ward lying west of the aforesaid division line.

Voting place, carpenter shop of Loum H. Faunce, rear of 57 Parker street.

WARD THREE.

Precinct 5. All that portion of said ward lying east of a line drawn through the centre of Summer street, from the centre of Middle to the centre of Maxfield street.

Voting place, Ward room, Kempton street, near County.

Precinct 6. All that portion of said ward lying west of aforesaid division line.

Voting place, northwest corner Hillman and Ash streets.

WARD FOUR.

Precinct 7. The entire ward, including the islands known and called Pope's and Fish island.

Voting place, City Hall.

WARD FIVE.

Precinct 8. All that portion of said ward lying easterly of a line drawn through the centre of Fifth street, from the centre of Wing street to the centre of Bedford street, thence through Bedford and South Sixth streets to the centre of Spring street.

Voting place, Ward room on Fourth street, near School.

Precinct 9. All that portion of said ward lying westerly of the aforesaid division line.

Voting place, No. 4 engine house, Bedford street.

WARD SIX.

Precinct 10. All that portion of said ward lying easterly of a line drawn through the centre of Fifth street, from its intersection with the centre of Wing street, thence through Grinnell, Fourth and Rivet streets, Acushnet avenue, Division, and Water streets, to and along the centre of French avenue south to tide water.

Voting place, store southwest corner of South and South Water street.

Precinct 11. All that portion of said ward lying westerly of the aforesaid division line.

Voting place, Ward room on Sherman street.

FIRE DEPARTMENT.

CHIEF ENGINEER.

FREDERICK MACY, Term expires January, 1893.

Office, City Hall Building.

ASSISTANT ENGINEERS.

First—LORING T. PARLOW,	Term expires January, 1891.
Second—PLINY B. SHERMAN,	Term expires January, 1894.
Third—AUGUSTUS A. WOOD,	Term expires January, 1893.
Fourth—HUGH McDONALD,	Term expires January, 1892.

CLERK OF BOARD OF ENGINEERS.

LUTHER G. HEWINS, JR.

POLICE DEPARTMENT.

CHIEF.

DANIEL A. BUTLER.

CAPTAINS.

LUTHER M. DAYTON, JAMES L. WILBER.

LIEUTENANTS.

LEMUEL D. ADAMS,	FREDERICK HUSSEY,
TIMOTHY C. ALLEN,	ELLERY PEIRCE,
SETH E. BRYANT,	THOMAS J. TAFT.

HEALTH INSPECTOR.

WILLIAM E. MACOMBER.

INSPECTORS.

FRANKLIN L. HATHAWAY, JOHN C. PARKER.

PATROLMEN.

EDGAR W. ALLEN,	ARTHUR H. JONES,
JAMES W. ARNETT,	JOHN M. JONES,
JOHN W. BRADY,	PATRICK KENNEDY,
MILTON A. BROWNELL,	ALLEN L. LEE,
PATRICK CANNAVAN,	JOSEPH MATHER,
THOMAS W. COMSTOCK,	JOHN J. McAULIFFE,
THOMAS DAHONEY,	CHARLES L. McBAY,
JAMES DOWDEN,	JAMES MITCHELL,
PETER DUMEC,	LEWIS S. MOORE, JR.,
WASHINGTON A. ELDRIDGE,	ROBERT MOYNAN,
THOMAS FAY,	CORNELIUS J. MURPHY,
GEORGE E. GENDRON,	GEORGE W. PAIGE,
JOHN HERNON,	H. WARREN RHODES,
THOMAS D. HOWLAND,	JOHN C. ROOKS,
DANIEL J. HUMPHREY,	WILLIAM E. ROSCOE,
JAMES A. IVEY,	JOHN SAVAGE,

JOSEPH DE L. SISSON,
HENRY STEVENS,
TIMOTHY SULLIVAN,
CHARLES H. TABER,
JOHN TELFORD,
GEORGE VOGEL,
JOHN H. WILLIAMS,
THOMAS H. WILSON,
JOSEPH B. WING,
JAMES A. WIXON.

DAY HOUSE KEEPERS.

HENRY W. BUMPUS,
DAVID G. KIRBY,
WILLIAM H. MITCHELL,
ELISHA E. RUSSELL.

NIGHT HOUSE KEEPERS.

ISAAC M. JONES,
JOHN B. MANCHESTER,
CHARLES H. ROBBINS,
HENRY STEVENS,
MICHAEL STEVENS.

CLERK OF POLICE DEPARTMENT.

HENRY N. WEST.

POLICE MATRON.

MARGARET S. BULLARD.

CONSTABLES.

THE MEMBERS OF THE POLICE FORCE, AND SAMUEL C. PERRY.

KEEPER OF THE LOCKUP.

DANIEL A. BUTLER.

PROBATION OEFICER.

ISAAC H. COE.

SPECIAL POLICE OFFICERS.

Allen, Lewis G.,
Allen, William H.,
Andrews, Charles O.,
Austin, John H. C.,
Barber, John R.,
Barker, Robert T.,
Barnes, Isaac,
Bartel, Leopold,
Bennett, Jeremiah H.,
Bently, Frank T.,
Bliss, Frederick P.,
Bliss, William H.,
Booth, Benjamin T.,
Borden, Prince S.,
Brown, William L. G.,
Buckley, Alfred R.,
Burgess, Stephen,
Burke, Michael I.,
Burke, William,
Butts, Henry R., Jr.,
Butts, Squire W.,
Carr, James E.,
Carson, C. J. R.,
Chase, Albert A.,
Childs, Cyril M.,
Clark, William,
Clarkson, Nicholas J.,
Clynes, Thomas,
Collins, John,
Conklin, Abraham,
Corish, John,
Corley, Maurice C.,
Cornell, Charles F.,
Cornell, Sidney I.,
Cornell, Stephen,
Crafts, James,
Cronin, Cornelius,
Cushman, Frederick,
Dammon, George K.,
Davis, Otis A.,
Delano, Harrison,
Devine, Patrick,
Devoll, George H.,
Donaghy, Joseph,
Duckworth, William A.,

Duffy, Thomas,
Durfey, Richard T.,
Eldridge, Samuel T.,
Engeland, George,
Etchell, Edward,
Ferguson, William,
Finn, Michael,
Fitzgerald, James,
Flavin, Maurice F.,
Francis, Frank W.,
Fuller, Jonathan A.,
Geddis, Henry S.,
Gibbs, Preston H.,
Gibbs, William H. H.,
Gifford, John,
Glennon, Thomas F.,
Grant, Lafayette,
Greene, Marshall S.,
Harrington, J., Clark st.
Hillman, George W.,
Hines, Henry S.,
Holden, George,
Holloway, James T.,
Holmes, Ezra,
Holmes, John J.,
Howard, Henry,
Howland, Joseph B.,
Howland, William G ,
Jay, James A.,
Jenney, Ezra T.,
Johnson, Oscar,
Johnson, W. H., Smith street,
Jones, Isaac M.,
Jordan, William,
Joseph, John,
Karcher, Frederick, Sr.,
Kelley, Hiram C.,
Kennedy, Thomas,
Kent, James D. T.,
King, Joseph T.,
Lapham, George W.,
Law, Peter G.,
Lawrence, Cyrus T.,
Leary, Dennis, Jr.,
Lincoln, Ellery C.,
Lincoln, John,
Little, Frank,
Little, John E.,
Lumbert, John,
Luther, Joseph P.,
McCullough, Robert,
McDermot, Michael,
Macomber, H. M.,
Marr, William J.,
Marshall, Charles A.,
Martin, Henry T.,
Maxfield, Russell,
Mehan, John,
Miller, George,
Miskell, John,
Morgan, Elias T.,
Morrison, Thomas,
Netcher, George F.,
Nicholson, John B.,
Oliver, John,
Omey, Joseph C.,
Paine, Nathan L.,
Palmer, Robert,
Parker, Charles W.,
Partington, William,
Peckham, Samuel W.,
Peed, Thomas J.,
Peirce, Anthony, Jr.,
Perry, Samuel C.,
Phillips, Henry T.,
Pierce, Thomas H.,
Pinelle, Joseph,
Pinkham, George W.,
Piper, Augustus D.,
Pitman, Henry L.,
Place, William J.,
Pollock, John H.,
Quinn, Joseph,
Read, George P.,
Read, Richard A.,
Remington, John G.,
Reynolds, James R.,
Ritchie, David,
Robbins, Charles H.,
Russell, George W. G.,
Russell, Henry C.,
Russell, James B.,
Sadler, William G.,
Salmon, John,
Sampson, Warren W.,
Saxon, James H.,
Shea, Michael J.,
Shields, Charles M.,
Small, David S.,
Smith, Henry,
Smith, Henry H.,
Spicer, Robert H.,
Spooner, Joseph W.,
Staples, Elias,
Stevens, Michael,
Stopford, James I.,
Sullivan, John D.,
Taber, Charles H.,
Taber, Christopher C.,
Taber, Gideon L.,
Taber, William H.,
Taft, Daniel F.,
Tallman, Edward S.,
Taylor, Theodore,
Taylor, William A.,
Thomas, Edward, Jr.,
Thompson, Thomas,
Thomson, John H.,
Tinkham, John S.,
Tinkham, Otis,
Townley, Richard,
Tripp, Benjamin E.,
Tripp, Holder R.,
Tripp, Le Roy G.,
Tuell, Charles D.,
Underwood, John A.,
Underwood, Willis C.,
Warfield, James H.,
Watts, William H. C.,
Weeden, Charles H. L.,
Wilbur, Allen R.,
Wiley, James,
Willis, Rufus H.,
Williston, Hiram L.,
Wilson, John,
Wood, Charles N.,
Wood, James A.

MEMBERS OF THE NEW BEDFORD PROTECTING SOCIETY.

(*Special Police Officers to serve at fires.*)

Akin, Francis T.,
Allen, George H. H.,
Allen, Gideon, Jr.,
Allen, Gilbert,
Bamford, William,
Boardman, Thomas,
Bourne, Standish,
Bly, O. Frank,
Briggs, George E.,
Case, Charles A.,
Coggeshall, R. C. P.,
Cornish, Clifton H.,
Denison, Henry C.,
Denison, John H.,
Dews, Edwin,
Dias, Joseph,
Dunham, Ernest A.,
Dunham, Fred C.,
Field, Walter F.,
Gardner, Edward R.,
Gibbs, John E.,
Gifford, Charles H.,
Gifford, Frank H.,
Grinnell, Edmund,
Hadley, A. W.,
Hammond, Henry F.,
Handy, Jonathan,
Haskell, Charles M.,
Holden, Charles H.,
Howard, Henry,
Howland, John J.,
Hussey, Charles M.,
Kelley, Charles S.,
Kingman, G. D.,
Knowles, Thomas H.,
Lawton, Charles H.,
Lewis, Edgar R.,
Lowe, John H.,
Manchester, P. F.,
Maxfield, Edmund F.,
Nye, Willard, Jr.,
Paine, Charles L.,
Parker, James N.,
Perry, Arthur E.,
Pierce, Edward T.,
Pierce, Otis N.,
Pitman, William H.,
Potter, William F.,
Read, William F.,
Robbins, Arthur E.,
Robinson, William A.,
Rotch, Morgan,
Richardson, Louis H.,
Russell, William A.,
Sanford, Gardner T.,
Sawin, Frank E.,
Shaw, Edward S.,
Smith, William T.,
Snow, Robert,
Swift, Frederick,
Swift, Leander H.,
Swift, R. W.,
Taber, Charles M.,
Taylor, Henry W.,
Taylor, William T.,
Thornton, Alfred,
Vincent, Mark T.,
Washburn, F. A.,
West, William R.,
Wilbor, Alfred G.,
Wilde, Edmond L.,
Willis, William H.,
Wood, Edmund,
Wood, Horace,
Wood, Thomas F.,

MEASURERS OF WOOD AND BARK.

Allen, Abram A.,
Bennett, William H.,
Browning, Edwin E.,
Chace, Charles S.,
Chace, Ira M.,
Comey, Charles M.,
Cobb, George A.,
Dammon, Samuel,
Davis, John,
Flood, James R.,
Grinnell, A. B., Jr.,
Holmes, Albert W.,
Howland, Abram H.,
Leavitt, Clark,
Moulton, Frederick F.,
Notter, John,
Pickens, George,
Potter, Edwin L.,
Reed, Benjamin H.,
Russell, William H.,
Rodman, Frank P.,
Smith, John,
Sylvia, Joseph L., Jr.,
Taber, Edward C.,
Weeks, Henry T.,
Wordell, Wilson I.

SURVEYORS OF LUMBER.

Beetle, John H.,
Carpenter, George,
Chase, Abram,
Croacher, Thomas W.,
Hayes, Lemuel W.,
Howland, John W.,
Randall, Charles G.,
Raymond, Hiram,
Russell, William H.,
Sowle, Nathaniel P.

MEASURERS OF GRAIN.

Chace, Ira M.,
Comey, Charles M.,
Horton, Charles M.,
Rodman, Frank P.

WEIGHERS OF COAL.

Bowman, Fred G.,
Chace, Ira M.,
Comey, Charles M.,
Corson, James A.,
Day, Thomas,
Hathaway, Franklin,
Hathaway, John G.,
Lumbard, Joseph W.,
Negus, A. S.,
Neal, John A.,
Paine, Nathan L.,
Pierce, Edward E.,
Reed, Edmund A.,
Rodman, Frank P.,
Rose, Antone J.,
Stevens, Dennis L.,
Tripp, John E.,
Wilbur, A. R.,
Wilson, Wallace B.,
Wordell, Wilson I.

CITY WEIGHERS.

Almy, Allen,
Ashley, Clara M.,
Ashley, Roland R.,
Barritto, Joseph,
Chace, Ira M.,
Chase, Albert A.,
Comey, Charles M.,
Congdon, William A.,
Corson, James A.,
Craft, James,
Davis, James,
Day, Thomas,
Delano, Harrison,
Drew, George,
Drew, Phineas F.,
Driscoll, Daniel E.,
Donovan, John,
Duff, John,
Edwards, Charles F.,
Eldridge, Howard,
Gibbs, J. Edward, Jr.,
Gibbs, William H. H.,
Gifford, Charles H.,
Gifford, James A.,
Gifford, Nathaniel W.,
Gifford, Richmond A.,
Gifford, Robert B.,
Haskell, Frank C.,
Hassett, James,
Hathaway, B. F., Jr.,
Hathaway, Franklin,
Hathaway, James L.,
Hathaway, John G.,
Hitch, Frank B.,
Horton, Charles M.,
Howard, Henry,
Howland, Cyrus E.,
Howland, Edward S.,
Jay, Walter F.,
Jenney, Ezra T.,
Jennings, George L.,
Jewett, Charles A.,
Kenney, Edward D.,
Kilpatrick, Edward F.,
Kilpatrick, Robert,
Lawton, Robert S.,
Lee, John A.,
Lewis, Henry S.,
Lincoln, Harry H.,
Lumbard, Joseph W.,
Macy, Peleg S.,
Manchester, Caleb.
Mason, Frederick A.,
Mulberry, William H.,
Neal, John A.,
Negus, A. S.,
O'Connor, Cornelius,
Paul, George H.,
Peirce, H. M.,
Peirce, Edward E.,
Perry, John S.,
Potter, Edwin L.,
Reed, Benjamin H.,
Reed, Edmund A.,
Rodman, Frank P.,
Taft, Daniel F.,
Tripp, Jabez D.,
Tripp, John E.,
Vierick, Louis A.,
Weeks, Henry T.,
Wilbur, Allen R.,
Wilcox, Frank S.,
Wilson, Wallace B.,
Wood, Henry L.,
Wood, John,
Wordell, Wilson I.

WEIGHERS OF BOILERS AND HEAVY MACHINERY.

Howard, Henry.
Sisson, William H. H.
Stone, Walter A.

FENCE VIEWERS.

Cobb, George A., Russell, John A.

POUND KEEPERS.

Manchester, John B., Stevens, Henry, Scott, Henry.

FIELD DRIVERS.

The Police, William H. Johnson (Smith st.), John B. Manchester and Henry Stevens.

1890 — CITY DOCUMENT No. 3.

CITY OF NEW BEDFORD, MASS.

TWENTIETH ANNUAL REPORT

OF THE

NEW BEDFORD WATER BOARD,

TO THE

City Council,

CONTAINING:

I.

The Report of the New Bedford Board for the Year 1889.

II.

The Report of the Water Registrar

III.

The Report of the Superintendent.

DECEMBER 28, 1889.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS.
1890.

New Bedford Water Board.

1890.

WALTER CLIFFORD,

Mayor of the City.

WILLIAM A. TUCKER,

President of the Common Council.

WILLIAM N. CHURCH.

HENRY HOWARD.

DAVID B. KEMPTON.

CLERK OF THE WATER BOARD, AND SUPERINTENDENT.

ROBERT C. P. COGGESHALL.

WATER REGISTRAR.

JAMES H. HATHAWAY.

FOREMAN.

FRANK M. ASHLEY.

PUMPING STATION.

ADONIRAM S. NEGUS, *Pumping Engineer.*

REPORT.

City of New Bedford,
Office of the New Bedford Water Board,
December 28, 1889.

To the City Council of the City of New Bedford:

Gentlemen,—In accordance with the provisions of the Water Ordinance, the Water Board respectfully submit their twentieth annual Report. Accompanying it may be found the Reports of the Superintendent, City Treasurer, and Water Registrar.

To these Reports you are referred for the detailed account of the operations of the works and their financial condition.

The following is an abstract from the statement of James H. Hathaway, City Treasurer:

Balance, December 1, 1888,	$22,625.49
Receipts for the year, all sources,	80,771.33
	$103,396.82

The charges have been as follows:

Expenditures for management and repairs,	$27,091.50
Expenditures for extensions,	41,342.53
	$68,434.03
Which leaves a balance to the credit of the works, on the books of the City Treasurer, December 1, 1889,	$34,962.79

The actual outlay for the construction of these works, December 1, 1889, exclusive of debt, interest, and management and repair account is $1,396,663.47.

The supply of water has been ample throughout the entire year. Owing to the unusually wet season, both Little Quittacas pond and the storing reservoir have remained practically full since the date of the last report. The quality has been uniformly good.

Considerable work has been accomplished in cleaning the interior of the conduit and in trimming the earth embankments which cover this structure.

The grade on the west side of the receiving reservoir lot has been raised to the level of the adjoining railroad location and the fence has been replaced upon the filling on the west line.

Thirty-nine petitions have been received for the extension of main distribution pipe, all of which have been granted.

Fifteen thousand eight hundred sixty-five feet of main distribution pipe have been laid, and 6049 feet of that previously laid have been removed, making a total of $61\frac{1016}{10000}$ miles now in use.

The twenty inch leading main has been extended this year from Union street to a point south of Bedford street, and during the coming year it is proposed to continue it in Sixth and County streets as far as South street.

The six inch main in Water street from Grinnell to Gifford street has been removed and replaced with a pipe twelve inches in diameter, and a ten inch main has been laid in Gifford street from Water street easterly to the Hathaway and Acushnet Mills.

An eight inch pipe has been placed in Tremont street from Arnold to Hawthorn street. By the laying of this line of pipe the supply in Hawthorn street has been greatly improved.

A contract was signed on December 20 with the McNeal Pipe and Foundry Company, of Burlington, N. J., for a sufficient amount of cast iron pipe and specials needed for the extensions of the coming year at prices varying from $28 to $29.75 per gross ton. Special castings to be $2\frac{3}{4}$ cents per pound. This price includes delivery, which is to be during the month of April next.

The number of service supplies laid during the past year has been 320. Total number now in use 6104.

The consumption still continues on the increase. The amount of water used during the month of July was so very much in advance of that used during any previous month that on August 26 we caused a circular letter, of which the following is a copy, to be sent to each of the officials having control of the various large manufactories in the community.

DEAR SIR:

From the time water was first introduced into the city of New Bedford, it has been the custom of the various large manufacturing establishments to freely use large amounts for condensing purposes. This practice, which was established during the earlier years of the works, when the consumption ranged at low figures, and the mills were few in number, has been allowed to continue and multiply until now it has become a very severe tax.

The Board has never recognized the right of the manufacturing establishments to use the water for such an unusual purpose, and it does not seem at all necessary, since nature has placed such a bountiful supply of salt water within the reach of all who use these large amounts in the manner stated.

The total consumption for the month of July amounted to 129,234,841 gallons; a daily average of 4,168,841 gallons. [On several days the figures ranged about 5,000,000 gallons.] Of this amount there was metered into the large mills 45,000,000 gallons. Beside this, there has been a large amount used which did not pass through meters, so we are perfectly safe in the statement that fully forty per cent. of the total amount was used by the mills. Of this, at least 30,000,000 gallons were used simply for condensing purposes.

In some cases salt water pipes were laid by the mills at an insufficient depth to obtain a supply under all conditions of the tide. In such cases they are either obliged to make a free use of the Acushnet

water for a few hours each day when the tide runs unusually low, or else stop. Other establishments, which at first were well provided, have allowed their salt water supply pipes to gradually become filled, and thus unfitted for the service for which they were placed, and thus they, too, have been using more and more each month.

The conduit which leads the water from the storing reservoir at Long Plain to the city should not be depended upon for a supply of more than 6,000,000 gallons per twenty-four hours, and this assuming that the storing reservoir is nearly full, which is not always the case. During the severe drought of 1886, when the storing reservoir settled to an unusually low level, it was impossible to obtain more than 3,000,000 gallons per twenty-four hours.

It will thus readily be perceived that we are fast approaching the safety limit of our capacity, and with the natural increase of domestic consumers we feel that it is unsafe and unjust to the whole community to further allow the use of water for condensing purposes, and that it cannot be continued without grave danger of crippling both the DOMESTIC and FIRE PROTECTION of the whole city.

As the rate for which water is supplied is about one quarter that which it costs to deliver, and a large deficit is annually incurred in consequence, for which provision has to be made each year in general taxation, the construction of an additional conduit involving a heavy expenditure that this supply may be continued certainly is not warranted.

We therefore are obliged to notify you to take immediate steps in the placing of suitable conductors that an ample supply of salt water may under all conditions be obtained at your engines. We give you ample and fair notice NOW and earnestly request you to make immediate provision, that the result of a sudden drought may not make it imperative for us to suddenly deprive you of a supply of water to your great inconvenience. We also feel that the circumstances warrant us in notifying you that after this year we shall not permit the water to be used for the purpose named.

Very respectfully,

(Signed) WALTER CLIFFORD,
WILLIAM A. TUCKER,
WILLIAM N. CHURCH,
HENRY HOWARD,
DAVID B. KEMPTON,
New Bedford Water Board.

This letter so fully explains itself that it seems hardly necessary to add anything to its wording. While we remember that our city is growing and that with added industries comes a natural increase in demand for water, yet it does seem entirely unnecessary that such large amounts

should be used each day. Our consumers pay such insignificant figures for the use of water that they do not appreciate the worth of each gallon as do the takers in our sister cities, and until something is done to bring them to a realizing sense of the situation we cannot expect much improvement from the results now obtained.

If, however, the improvement in the substitution of the use of salt water for condensing purposes which has been promised by all of our mills shall be carried into effect, it would have the result of reducing this extravagant use of water which is so great a burden upon the city.

Should this prove true, as we have reason to believe it will, then we shall be enabled to present a much improved showing in the matter of consumption when we present our next annual report.

All of which is respectfully submitted,

WALTER CLIFFORD,
WILLIAM A. TUCKER,
WILLIAM N. CHURCH,
HENRY HOWARD,
DAVID B. KEMPTON.

Report of the Water Registrar.

City of New Bedford,
Water Registrar's Office,
December 1, 1889.

To the New Bedford Water Board:

Gentlemen,—I herewith present to you the annual statement of my accounts as Water Registrar for the year ending at this date.

The accounts are arranged in the following order, viz:

1. The receipts for the year from all sources.

2. A classified statement of disbursements for the year.

3. A recapitulation of the outlay for the year, showing the net expenditures under each head.

4. A general recapitulation of the outlay from the commencement of the works to this date.

5. The source of income applied to construction account.

6. Water debt and payments made on account of the same.

CREDITS TO THE NEW BEDFORD WATER WORKS.

Balance, December 1, 1888,			$22,625.49
Receipts for water:			
Rates,	$55,745.89		
Appropriations,	12,000.00	$67,745.89	
Receipts on account of services:			
Services,	$3,240.88		
Meters,	393.50		
Fines,	22.00	3,656.38	
Receipts for mains:			
Pipe, castings and labor,		9,117.56	
Receipts from other sources:			
Sale of old building,	$70.00		
Sale of hay,	109.50		
Rents,	72.00	251.50	80,771.33
			$103,396.82
Expenditures for the year ending December 1, 1889,			68,434.03
Balance, cash in treasury, December 1, 1889,			$34.962.79

EXPENDITURES FOR 1889.

MANAGEMENT AND REPAIRS.

Engineering and superintendence,	$3,843.15	
Water Registrar, inspection and clerk hire,	2,721.20	$6,564.35
Pumping expenses:		
Engineer, fireman and watchman,	$4,406.06	
Fuel for pumping engines,	4,657.94	
Oil, waste, packing, gas, &c.,	389.71	
Other supplies,	47.07	
Repair of engines,	558.03	
Repair of boilers,	79.47	
Incidentals,	64.02	10,202.30
Engine house and lot:		
Maintenance,		238.76
Mains:		
Main pipe, gates, hydrants, &c.,	1,015.17	
Maintenance,	207.34	1,222.51

Services:			
Plumbing,	420.00		
Labor and stock,	31.75		
New stop boxes, cleaning taps, &c.,	394.88	846.63	
Fountains and meters,		216.68	
Reservoirs and conduit:			
Repairs to receiving and distributing reservoir and stand pipe,	867.08		
Repairs to storing reservoir, dam and conduit,	1,801.06	2,668.14	
Special repairs:			
Repairs to distributing reservoir,	85.29		
Repairs to receiving reservoir,	559.73	645.02	
Water street work shop and pipe yard,		814.64	
Incidentals:			
Board of horses two years, and repairing streets,	1,098.29		
Sinking funds,	600.00		
Public debt,	400.00		
Other expenses,	1,574.18	3,672.47	$27,091.50

EXTENSIONS.

Mains:			
Main pipe and special castings,	$15,362.07		
Labor laying mains,	6,650.35		
Lead, carting, &c.,	2,577.80		
Other supplies,	1,657.21		
Stop gates, hydrants, &c.,	3,638.21		
Unloading pipe, and wharfage,	114.82	$30,000.46	
Services:			
Service pipe, lead and iron,	1,649.27		
Taps, stops, boxes, and other expenses,	2,838.74		
Labor laying services,	2,526.64		
Plumbing,	310.00	7,324.65	
Fountains and meters,		2,639.89	
Connection with Little Quittacas,		1,377.53	$41,342.53
Total expenditures for the year,			$68,434.03

NET EXPENDITURES UNDER EACH HEAD.

MANAGEMENT AND REPAIRS.

Outlay as above stated,		$26,091.50
Deduct from this amount:		
Building sold,	$70.00	
Hay sold,	109.50	
Fines,	22.00	
Rents,	72.00	273.50
		$25,818.00

EXTENSIONS.

Pipe, labor and expenses laying mains,		$30,000.46	
Deduct from this amount:			
Pipe, castings, &c.,		9,117.56	
		$20,882.90	
Services:			
Outlay as above,	$7,324.65		
Amount received from takers,	3,240.88	4,083.77	
Hydrants, Fountains, Meters, &c.:			
Fountains and meters,	$2,639.89		
Meters sold,	393.50	$2,246.39	$27,213.06

SPECIAL.

Extension to Little Quittacas,	$1,377.53
Sinking funds,	600.00
Interest on water debt,	400.00
	2,377.53
Net expenditures for 1889,	$55,408.59

CONDENSED STATEMENT.

DEBITS.

Net expenditures for the year,	$55,408.59	
Balance unexpended,	34,962.79	$90,371.38

CREDITS.

Balance, December 1, 1888,	22,625.49	
Received for water,	67,745.89	$90,371.38

GENERAL SUMMARY.

The whole outlay upon the works to this date has been as follows:

Conduit,	$212,307.89
Dam,	18,845.24
Distributing reservoir,	73,740.62
Distribution,	694,011.41
Engine house and lot,	91,228.40
Engines and foundations,	88 169.46
Storing reservoir,	53,496.06
Receiving reservoir,	33,360.27
Pump well and culvert,	16,561.41
White homestead,	4,000.00
Peckham road,	512.00
Preliminary,	2,605.34
Engineering,	23,511.88
Salaries,	9,225.00
Incidentals,	8,124.05
Management and repairs,	373,281.12
Fountains, hydrants, meters, &c.,	21,557.78
Real estate, work shop, &c.,	6,498.75
Land, State street,	350.00
New force main,	23,958.30
Inspection,	5,570.39
Temporary connection with Little Quittacas,	2,881.34
Little Quittacas extension,	6,147.88
	$1,769,944.59
Payments of interest on debt,	48,788.14
Water bonds paid, 6 per cent.,	20,000.00
Sinking funds,	1,200.00
	$1,839,932.73
Balance, December 1, 1889,	34,962.79
	$1,874,895.52

The receipts from the commencement of the works to this date have been as follows, viz.:

Appropriations by City Council,	$1,038,000.00
Received for water,	824,895.52
	$1,874,895.52
Deduct amount above stated,	1,839,932.73
Balance at this date,	$34,962.79

Outlay as above,		$1,839,932.73
Deduct from outlay:		
Paid for management and repairs,	$373,281.12	
Interest paid,	48,788.14	
Bonds paid,	20,000.00	
Sinking funds,	1,200.00	443,269.26
Actual cost of works to date,		$1,396,663.47
Total receipts for water,		$836,895.52
Deduct from this:		
Amount paid for maintenance, debt, interest and sinking funds,		443,269.26
Water receipts applied to construction,		$393,626.26
Receipts for water in 1889,		$67,745.89
Receipts for water in 1888,		61,535.54
Increase for 1889,		$6,210.35

The funds for the construction of the water works have been derived from the following sources:

Investment of Sylvia Ann Howland educational bequest,	$100,000.00
Sylvia Ann Howland water bequest,	100,000.00
Receipts from sale of bonds,	815,000.00
Net receipts for water applied to this account.	393,626.26
Appropriations for construction in 1885,	23,000.00
	$1,431,626.26
Deduct balance, December 1, 1889,	34,962.79
Net cost as above stated,	$1,396,663.47

The water debt at this time is as follows:

Water bonds, 7 per cent.,	$130,000.00
" " 6 " "	300,000.00
" " 5 " "	100,000.00
" " 4 " "	120,000.00
Sylvia Ann Howland educational bequest, 6 per cent.,	100,000.00
	$750,000.00
Less sinking funds,	1,265.44
Net debt December 1, 1889,	$748,734.56

The appropriations by the City Council for 1889 were as follows:

Water bonds, 6 per cent.,	$20,000.00
Water bonds, 7 per cent.,	10,000.00
Interest on bonds,	40,400.00
Interest on trust funds,	6,000.00
Total appropriations,	$76,400.00
Net expenditures by Water Board,	55,408.59
Actual amount expended,	$131,808.59
Number of services put in during the year,	295
Number of persons using water December 1, 1888,	31,826
Since added,	2,174
	34,000

This includes those using water in dwellings only.

The Inspector presents the following facts in relation to his work the past year:

There were 719 leaks reported and stopped, 909 services turned off and on, a large number of which were for repairs, 11 only having been turned off for non-payment of rates within the required time.

There were 57 families and rooms reported using water and 370 extra fixtures found in use not previously reported on which the rates amounted to $698.75.

Respectfully submitted.

JAMES H. HATHAWAY,
Treasurer and Water Registrar.

Report of the Superintendent.

New Bedford Water Works,
Superintendent's Office,
December 2, 1889.

To the New Bedford Water Board:

Gentlemen,— The Superintendent's twentieth annual report of the operations of this department for the year ending December 1, 1889, is herewith respectfully presented.

In annexed table A will be found a record of the rainfall of the past year in three localities, viz.: the storing reservoir, the pumping station, and at the corner of Spring and County streets. The last named is kindly supplied by Thomas R. Rodman, Esq.

There has been a remarkable similarity in the weather conditions during the past two years. Both seasons have been abnormally cool and wet, especially during the Summer and Autumn months. The rainfall which has been unusually heavy, has occurred at such frequent intervals as to keep all sources of supply well filled, and as would naturally be the result, the supply has greatly exceeded the demand.

The flow from Little Quittacas pond into the storing reservoir was maintained for about two months during the latter part of the Summer. This prevented the water level in the last named basin from settling at that time as otherwise would have been the tendency.

The quality has remained excellent as is indicated in the following statement which presents the results of monthly examinations made by the State Board of Health. This statement is kindly supplied through the courtesy of F. P. Stearns, Esq., Chief Engineer of the State Board of Health.

Water Analysis—State Board of Health.

PARTS IN 100,000.

Locality.	No.	Date Received.	Appearance.		Odor.		Residue on Evaporation.				Ammonia.		Chlorine.	Nitrogen as Nitrates.	Nitrogen as Nitrites.
			Turbitity.	Color.	Cold.	Hot.	Total	Loss on Ignition.	Fixed.	Order on Ignition.	Free.	Albuminoid			
Conduit at entrance to receiving reservoir.	3771	Dec. 20, 1888	None, very slight sediment.	1.5	Very faintly strawlike.	Very faintly wooden	4.80	2.30	2.50	Faintly peaty, slightly disagreeable.	.0000	.0252	.54	.0120	.0001
do.	3921	Jan. 24, 1889.	Very slight, very slight sediment	1.3	Faintly mouldy.	Faintly vegetable	4.15	2.10	2.05	Strongly peaty.	.0010	.0182	.48	.0120	.0001
do.	4165	Feb. 28, 1889.	Very slight, very slight earthy sediment.	1.0	Very faint or none.	Very faint or none.	4.00	1.70	2.30	Faintly peaty.	.0002	.0124	.49	.0120	.0004
do.	4423	Mar. 29, 1889.	Slight, slight coarse brown flocks.	0.7	Distinctly mouldy.	Faintly strawlike	3.55	1.50	2.05	Peaty.	.0006	.0142	.47	.0050	.0001
do.	4591	Apr. 29, 1889.	Very slight, slight reddish brown sediment.	1.0	Very faint or none.	Distinctly vegetable	4.00	1.50	2.50	Peaty.	.0022	.0184	.51	.0080	.0001
do.	4731	May 23, 1889.	Very slight, slight sediment	1.3	Very faintly vegetable.	Faintly vegetable sweetish.	4.10	1.90	2.20	Peaty, slightly disagreeable.	.0004	.0198	.54	.0080	.0002

No mention is made of degrees of hardness.

Scale of colors.— 0 = colorless.
1 = yellowish brown tint.
2 = deep yellowish brown.

Water Analysis—State Board of Health.

PARTS IN 100,000.

Locality.	No.	Date Received.	Appearance.		Odor.		Ammonia.		Nitrogen as Nitrates.	Nitrogen as Nitrites.
			Turbidity.	Color.	Cold.	Hot.	Free.	Albuminoid		
Conduit at entrance to receiving reservoir.	4861	June 20, 1889.	Very slight, considerable flocky sediment.	2.5			.0022	.0332	.0050	.0000
do.	4967	July 23, 1889.	Veryslight,slight reddish brown sediment.	1.5			.0012	.0374	.0090	.0001
do.	5085	Aug. 20, 1889.	Very slight, very slight sediment	2.0	None.	Faintly vegetable, sweetish.	.0000	.0296	.0250	.0001
do.	5192	Sept. 18, 1889.	Very slight, very slight sediment	2.0	Very faintly vegetable.	Faintly vegetable, sweetish.	0018	.0296	.0100	.0001
do.	5265	Oct. 16, 1889.	None, very slight sediment.	1.5	None.	Distinctly vegetable, sweetish.	.0012	.0270	.0120	0000
do.	5370	Nov. 20, 1889.	Very slight, very slight sediment	1.8	Very faintly vegetable.	Distinctly vegetable, sweetish.	.0024	.0262	.0120	.0001

No mention is made of degrees of hardness.

Scale of colors.— 0 = colorless.
1 = yellowish brown tint.
2 = deep yellowish brown.

At Little Quittacas pond a dike has been constructed from the flume a few hundred feet southeasterly along the shore to prevent the tendency of the pond to overflow into the dry swamp ditch. The roadway from the North Rochester road to Little Quittacas pond has been completed, and the channel connecting said pond with the storing reservoir has received the necessary amount of labor for proper maintenance.

The storing reservoir, dam, and gate house have received such attention as was found needed to keep these important parts in good condition.

During the construction of the conduit a considerable amount of sand accumulated in different places upon the bottom. No attempt has ever been made to remove this deposit until this season, when this matter received attention during the months of August and September. All accumulations were scraped together and transferred into a cart constructed to run upon the curved bottom of the conduit, and carried to the nearest manhole, where it was taken out. The entire brickwork was then thoroughly scrubbed, and when finished the interior was left in a very satisfactory condition. This work was accomplished in ten working days and cost $472.51.

More or less filling has been placed over the top of the conduit from the storing reservoir south 2200 feet. Also in a hollow located upon the Terry farm between manholes 10 and 11.

In order that the location of the conduit may be easily determined at any point, stone bounds have been placed directly over it at convenient intervals from station 130 south to the receiving reservoir. It is proposed to continue this work on the remainder of the conduit during the coming year.

The work of improving the receiving reservoir enclosure, which was commenced last year, has been continued.

Filling has been placed on the west side adjoining the railroad location for at least ten feet into the lot. This required 890 cubic yards of material, and the grade now corresponds to that of the railroad location. The fence has been replaced upon the division line. The gate houses and fences around the entire enclosure are now receiving a coat of paint. The cost of all these improvements to this date has been as follows:

Expended previous to December 1, 1888,	$3,534.57	
Expended during 1889,	559.73	$4,094.30

Engine No. 1 (McAlpine) has been in operation 1656 hours, 5 minutes, making 1,524,176 revolutions, and pumping 446,583,568 gallons of water.

It was found necessary to renew the annular rubber valves comprising the plunger and foot valves of both pumps of this engine. Repairs other than this have not been required.

The cost of pumping has been as follows, viz.:

Salaries, 13 weeks,	at	$83.31	$1,083.03	
158.1866 gross tons Lehigh coal,	"	5.89	931.72	
170.7933 " " " "	"	5.44	929.12	
.9821 " " " "	"	5.89	5.78	
¾ cord white pine wood,	"	4.00	3.00	
32 gallons cylinder oil,	"	.62	19.84	
8½ gallons sperm oil,	"	.90	7.65	
16 gallons lubricating oil,	"	.30	4.80	
1¾ gallons alcohol,	"	2.50	4.37	
2 lbs. flax packing,	"	.69	1.38	
1 lb. eureka packing,	"	.65	.65	
53½ lbs. waste,	"	.08¼	4.41	
24,356 cubic feet gas,	"	1.50	36.53	
5 brooms,			1.04	
1 coal shovel.			.88	
Repair to engine,			238.50	
Repair to boilers and settings,			11.72	$3,284.42
Cost of raising water into distributing reservoir, per million gallons,				$7.35
Cost of pumping water one foot high, per million gallons,				.0545 cents.

Engine No. 2 (Worthington) has been in operation 463 hours, making 503,620 revolutions, and pumping 74,535,760 gallons of water.

The only repair required has been the renewal of the lower part of the foot valve, which work is now being accomplished.

The cost of pumping has been as follows, viz. :

Salaries, 4 weeks,	at	$83.31	$333.24	
67.0538 gross tons Lehigh coal,	"	5.89	394.95	
2.0089 " " " "	"	5.44	10.93	
.2679 " " " "	"	5.89	1.58	
7¾ gallons cylinder oil,	"	.62	4.80	
1½ gallons sperm oil,	"	.90	1.20	
1⅓ gallons lubricating oil,	"	.30	.40	
6 lbs. waste,	"	.08¼	.50	
8119 cubic feet gas,	"	1.50	12.18	
1 broom,			.22	
Repair to engine,			6.16	
Repair to boilers and settings,			11.72	$777.88
Cost of raising water into distributing reservoir, per million gallons,				$10.44
Cost of pumping water one foot high, per million gallons,				.0827 cents.

Engine No. 3 (Worthington high duty) has been in operation 3630 hours, 40 minutes, making 4,007,765 revolutions, and pumping 777,506,410 gallons of water.

The repairs upon this engine have consisted in the placing of Tripp Metallic packing on the valve rod between the low and high pressure steam chest upon both sides. New brass plungers and bushings replace those formerly in use in both feed pumps, and the suction to the feed pumps, and the feed pipes leading from same, have been largely renewed, brass pipe being used.

The cost of pumping is herewith stated, viz. :

Salaries, 35 weeks,	at	$83.21	$2,914.85
329.8782 gross tons Lehigh coal,	"	5.89	1,942.98
178.3889 " " " "	"	5.44	970.43
.8929 " " " "	"	5.89	5.26

½ cord white pine wood,	"	$4.00	$2.00	
95 gallons cylinder oil,	"	.62	58.90	
25 gallons sperm oil,	"	.90	22.50	
37½ gallons lubricating oil,	"	.30	11.25	
120 lbs. caustic soda,	"	.06	7.20	
40 lbs. potash,	"	.10	4.00	
16 lbs. flax packing,	"	.69	11.04	
2 lbs. round packing,	"	.44	.88	
3 lbs. eureka packing,	"	.65	1.95	
94½ lbs. waste,	"	.08¼	7.80	
97,425 cubic feet gas,	"	1.50	146.14	
7 brooms,	"	2.50	1.46	
18 water glasses,	"	3.15	4.73	
Repair to engine,			313.37	
Repair to boilers and settings,			48.73	$6,476.47
Cost of raising water into distributing reservoir, per million gallons,				$8.33
Cost of pumping water one foot high, per million gallons,				.0653 cents.

No repairs other than that necessary for ordinary maintenance have been required upon either the boilers or their settings.

Boilers Nos. 1 and 2 are about worn out, and should not be used much longer. Your earnest attention is invited to the necessity of replacing them very soon with those of a modern type sufficient to meet all requirements for many years to come. These boilers have been in use for twenty years, which is a long service.

Boilers Nos. 3 and 4 need retubing, which should be done previous to the replacing of Nos. 1 and 2.

Boilers Nos. 5 and 6 are in excellent condition, and are not likely to need any repairs for many months to come.

The total cost of pumping for the past year may be summarized as follows, viz.:

1st. Figured on pumping station expenses, viz.:		$10,638.77
Cost of fuel used,	$5,297.75	
Salaries, engineers, firemen, watchman,	4,332.12	
Cost of oil, waste, packing, and other supplies,	378.70	
Repairs and alterations on machinery and boilers,	630.20	
Total pumping expenses,		$10,638.77

Raising water into reservoir, per million gallons,	$8.04
Raising water per million gallons, one foot high,	.0618 cents.

2d. Figured on total maintenance, viz.:

Raising water into reservoir, per million gallons,	$56.59
Raising water per million gallons, one foot high,	$.43\frac{512}{1000}$ cents.

A guage for the purpose of indicating and recording the fluctuation of the water level in the distributing reservoir has been placed in the engine room of the pumping station. The mechanism of this device is operated by electricity, and is the invention of George E. Winslow of Waltham, Mass. It has now been in use for over a year and has never failed to make an accurate record. It certainly is a most valuable auxiliary to the pumping plant.

The contract for coal was awarded Temple S. Corson, who agrees to furnish the best quality of "Old Company's" Lehigh, delivered at the pumping station, for $5.44 per gross ton.

In my last report I mentioned the fact that the insufficient draught capacity of the chimney was fast becoming a positive obstruction. There are times when the fires are operated with the greatest difficulty. It is not economical to operate boilers under such serious conditions. I also stated a list of improvements which were very much needed at the pumping station, which I herewith again place before you.

1st. The substitution of new boilers in place of boilers Nos. 1 and 2. They should be capable of carrying high pressure of steam, of high evaporation power, of capacity that will admit of use either with the "high duty" engine or the others, at pleasure.

2d. The building of a new chimney of sufficient height and flue area that will allow the operating of the entire boiler plant at the same time.

3d. The connecting of the boiler flues with the new chimney, and the removal of the chimney now in use.

4th. The building of a coal shed of sufficient capacity for the storage of a year's supply (1000 gross tons) of coal.

For the good of the department this work should receive prompt attention. It should be commenced early in the Spring and accomplished as soon as it is possible to do so. I would strongly urge that you seriously consider this matter at once.

There have been 3.0047 miles of main distribution pipe laid the past season, and 6049 feet of that previously laid removed. The total length of distributing mains now in use is 61.1061 miles.

Another section of the twenty inch supply main has been completed, viz.: in Sixth street from Union to 14 feet south of Bedford street. This work required the placing of

2180 feet 20-inch pipe,
62 feet 8-inch pipe,
159 feet 6-inch pipe,
30 feet 4-inch pipe,
14 stop gates,
3 fire hydrants.

The cost may be stated as follows:

Pipe,	$4,652.84	
Special castings,	289.14	
Gates and hydrants,	833.01	
Lead and gasket,	439.92	
Altering sewers and drains,	198.98	
Repairing streets,	182.41	
Carting,	130.20	
Labor,	1,481.82	$8,208.32

The erection of the Hathaway Mill called your attention forcibly to the fact that the distributing mains in that part of the city were inadequate in size to supply the demand likely to be made upon them. The six inch main in Water street was laid when Potomska Mill No. 1 was being built. This was the only mill then thought of in this locality.

Since then there has been erected Potomska Mill No. 2, Acushnet Mill Nos. 1 and 2, and now the Hathaway Mill. To meet this case a twelve inch pipe has replaced the smaller sized main in Water street, connecting with the twelve inch main at Grinnell street and continuing in Water street to a point 14 feet south of Gifford street. A ten inch pipe has also been placed in Gifford street to supply both the Hathaway and Acushnet Mills.

This work required

2753 feet 12-inch pipe,
710 feet 10-inch pipe,
14 stop gates,
9 fire hydrants.

The cost may thus be stated:

Pipe,	$3,827.80	
Special castings,	294.02	
Gates and hydrants,	996.08	
Lead and gasket,	300.38	
Meter and box,	535.37	
Carting and labor,	1,912.32	
Dynamite and fuse,	71.06	
Police and other expenses,	145.60	$8,082.63
Credit by value of pipe specials, &c., removed from Water street,		908.14
		$7,174.49

For the supply of the new Bennett Mill an eight inch pipe has been laid in Sawyer street from Acushnet avenue east to 60 feet east of the mill.

This work required

1845 feet 8-inch pipe,
5 stop gates,
2 fire hydrants.

The total cost has been

Pipe,	$1,232.82	
Special castings,	120.42	
Gates and hydrants,	227.08	
Lead and gasket,	104.07	
Meter and box,	498.69	
Carting and labor,	477.99	$2,661.07

The six inch pipe in Tremont street from Arnold street south 300 feet has been removed, and an eight inch pipe laid in the same street from Arnold to Hawthorn. This connects the eight inch pipe system north of Arnold street with a pipe of equal size in Hawthorn street.

The total cost was

Pipe,	$490.05	
Special castings,	36.12	
Gates and hydrants,	70.86	
Lead and gasket,	41.25	
Carting and labor,	173.26	$811.54

There have been ten leaks upon the mains the past season as shown by the following statement:

DATE.	SIZE.	LOCATION.	CAUSE.	COST.
Mch. 19, 1889	4-inch	Prospect st., cor. Grinnell.	Joint started	$ 2.00
May 6, "	8 "	Second st., south of South.	" "	1.75
May 14, "	6 "	Willis st., cor. County.	Pick hole.	1.00
June 12, "	4 "	Bonney, cor. Washington.	Pipe broken.	8.67
June 13, "	6 "	Social st., east of French ave.	Pipe burst.	19.34
July 1, "	6 "	Madison st., east of Orchard.	Pick hole.	1.00
July 5, "	16 "	Borden st., south of Bedford.	Joint started	4.00
July 15, "	8 "	Sawyer st., east of Rock.	" "	2.75
Aug. 11, "	8 "	Acushnet av., so. of Lund's cor	Pipe burst.	25.09
Aug. 27, "	8 "	Wamsutta st., east of Acushnet ave.	Joint started	2.15

The following list of much needed work in improving the distributing system is placed before you, and I would recommend that steps be taken to carry these suggestions into execution during the coming season.

1st. An extension of the twenty inch main in Sixth street from near the south line of Bedford southerly to County street, and thence in County street southerly to the south line of South street. This will replace the six inch cast iron pipe in Sixth street, and the six inch wrought iron cement lined pipe in County street. There will be required 1533 feet of 20-inch pipe, and the cost is estimated at $6964.

2d. In Acushnet avenue from Walnut street to Bedford, an eight inch pipe to replace the present line of four inch wrought iron cement lined pipe. In Cannon street, an eight inch pipe to be laid from Acushnet avenue to Water street, and thence south in Water street with a ten inch pipe to Pine street. This will require about 1900 feet of eight inch pipe and 424 feet of ten inch pipe, and the estimate of cost is placed at $3776.

3d. An extension of the twelve inch main in Water street from 14 feet south of Gifford street southerly through Water street and French avenue to the south line of Social street. This will replace six inch pipe in Water street, four inch pipe in French avenue, and will require 1215 feet of twelve inch pipe. The cost is estimated at $2793.

4th. In Merrimac street a ten inch pipe to be located from Pleasant street west 157 feet. This will complete a ten inch connection with the supply main in State street and the Purchase street main. The cost is estimated at $273.

5th. In Kempton street a ten inch pipe from Pleasant to Purchase street and an eight inch pipe from Purchase street to Acushnet avenue, connecting with the eight inch pipe now terminating at that point. This will require 225 feet of ten inch pipe, and 250 feet of eight inch pipe. Cost estimated at $800.

Three hundred and twenty service pipes have been added, and three extensions made to pipes laid previously. The total number of services now in use is 6104.

Seventy-two service taps have been cleared as follows, viz.: rust 67, trouble inside 5.

Thirty-eight new hydrants have been set, and twenty-three previously in use have been removed. Total number now in use 460.

Forty-two new stop gates have been set, and fourteen

formerly in use have been removed. Total number now in use 643.

Four new waste gates have been set, and one previously in use has been removed. Total number now in use 65.

Eighteen private stop gates have been set. Total number now in use is 140.

The total length of small sized distribution pipe (less than four inch) is 5872 feet.

The total number of small sized stop gates (less than four inch) is 62.

The total number of moters in use is 31.

The total number of meters in use is 120.

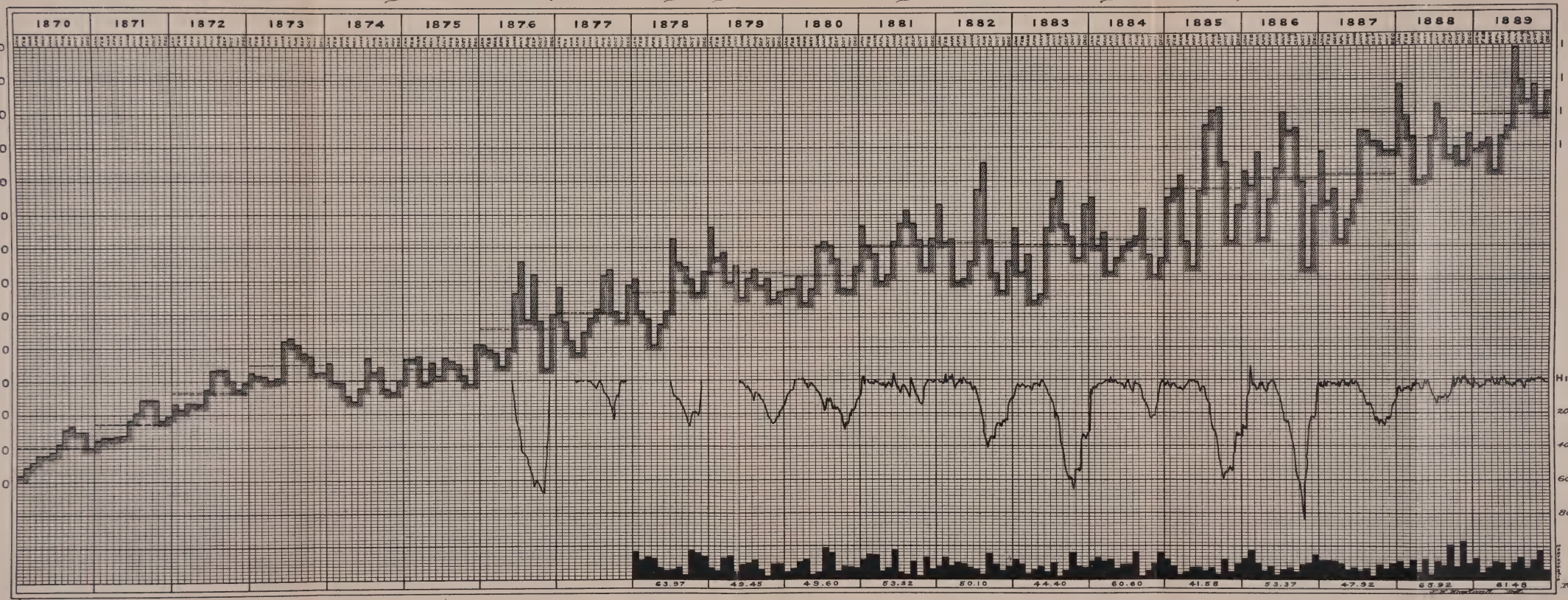
The annexed diagram presents detailed information regarding the monthly consumption from the beginning. The fluctuation of the water level in the storing reservoir and the rainfall is also shown.

MONTHLY CONSUMPTION AND RECORD OF PRESSURE AT THE CITY HALL.

1889. Month.	Monthly Consumption Gallons.	Daily Average Gallons.	Lbs. pressure 10 A. M.			Lbs. pressure midnight.		
			Max.	Min.	Ave.	Max.	Min.	Ave.
January,	99,076,628	3,196,020	33	30	32	34	32	33
February,	100,948,803	3,605,314	33	30	32	35	32	33
March,	102,197,154	3,296,682	33	30	32	34	32	33
April,	92,523,976	3,084,133	34	30	31	34	31	33
May,	102,905,544	3,319,534	33	30	31	34	32	33
June,	105,988,039	3,532,935	35	30	31	36	31	33
July,	129,234,062	4,168,841	34	30	32	36	31	34
August,	119,737,513	3,862,500	35	31	33	35	32	34
September,	113,910,153	3,797,005	35	31	33	36	33	35
October,	118,273,254	3,815,252	35	31	33	36	34	35
November,	109,311,595	3,643,706	35	32	34	36	35	35
December,	116,380,954	3,754,224	35	31	33	36	34	35
Averages,	109,207,351	3,590,379	34	30	32	35	32	34

New Bedford Water Works

Diagram showing the consumption, height of water and rainfall at the Storing Reservoir from the commencement.



COMPARISON OF THE CONSUMPTION OF THE YEAR 1889 WITH THE RECORD OF THE EIGHT PREVIOUS YEARS.

Year.	Estimated Population.	Estimated No. of Consumers.	Total Number of Gallons Consumed.	Average Daily Consumption.	No. of Taps.	Gals. per day to each inhabitant.	Gals. per day to each consumer.	Gals. per day to each tap.
1881,	27,000	19,044	844,249,647	2,213,012	3925	86	122	589
1882,	28,500	20,424	859,119,622	2,326,352	4203	82	114	553
1883,	30,000	22,249	849,059,700	2,326,191	4465	78	105	521
1884,	33,000	23,749	867,815,595	2,371,080	4691	72	100	506
1885,	33,700	25,375	1,049,801,050	2,876,167	4965	85	113	579
1886,	34,500	28,480	1,086,534,615	2,976,807	5225	86	104	569
1887,	36,000	30,080	1,112,302,789	3,047,404	5495	85	101	555
1888,	37,500	31,826	1,229,841,794	3,360,223	5785	89	109	581
1889,	40,000	34,000	1,310,488,214	3,590,379	6104	90	106	588

The consumption for the first three months of the past year shows a decrease of $8\frac{6}{10}$ per cent. over that of the corresponding months of the previous year.

For the past eight months there has been an increase of $11\frac{9}{10}$ per cent. over the corresponding period last year.

For the month of July the consumption was unprecedented. It amounted to 129,234,062 gallons, a daily average, including Sundays, of 4,168,841 gallons. On several individual days the figures ranged at about 5,000,000 gallons. Fully 45,000,000 gallons of the amount stated were used by the large cotton mills of this city, 30,000,000 gallons out of the 45,000,000 gallons having been applied to condensing purposes.

For the three months ending September 30, the total consumption was 362,881,728 gallons. Of this there was

metered into the large mills 110,516,899 gallons; or, in other words, there was used by the large mills a total of about $30\frac{4}{10}$ per cent., fully 20 per cent. being used in condensing.

The largest consumption in any one day during the year was on July 1,—5,394,269 gallons. The minimum daily consumption was on June 2d,—2,128,358 gallons.

On August 26 a notice was sent by you to each establishment using water for condensing purposes, notifying them that the exigencies of the case demanded the discontinuance of the use of water for that purpose as soon as possible, and requesting that immediate steps be taken in the placing of conduits, that an ample supply of salt water might be secured by them at their engines under all conditions of the tide.

The agents of the various corporations seem to realize the situation, as they all have given the matter attention and have executed satisfactory arrangements for securing the needed supplies.

While there has been no danger of a water famine the past year, water rarely having been so plentiful, yet we have experienced seasons of scarcity in the past, and provision for similar occurrences in the future must be made.

The rapid increase in manufacturing calls for a corresponding increase in the use of water, which is generously supplied in unlimited qualities at merely nominal rates.

I hardly need remind you that the consumption is rapidly approaching the limit of conduit capacity. This conductor, through which the water from the storing reservoir at Long Plain flows to this city, ought not to be depended upon for a supply exceeding six million gallons in twenty-four hours; and this, assuming that the storing reservoir is or very nearly at high water level. During the severe drought of 1886, when the storing reservoir

settled 85 inches, it was impossible to obtain a supply exceeding three million gallons in twenty-four hours.

While we know that a large amount of the increase of consumption in late years is due to the freedom with which it has been used by the manufacturing interests, yet we must not be blind to the fact that a large wastage of water still continues. The experience of all water departments attest to the fact that the loss frem both leaky fixtures and willful waste is enormous. An ordinary house faucet supplies about six gallons per minute. If running continuously at this rate it would deliver 360 gallons per hour, 8640 gallons per day, or 3,153,600 gallons in a year. We now have in commission considerably over 6000 service supplies, and from the above figures it will be seen that defects on only a small portion of the whole number will create a large wastage. While all possible care is exercised regarding this matter, yet leaks are constantly being discovered. Upon notification the owner of the property institutes immediate repairs, knowing that if he does not do so the supply will be cut off. In many cases he does not give this matter attention until the notice requires him to do so. If, however, each supply was metered, and the owner required to pay for the amount of water actually used, he would not then be at all likely to wait until a representative of this department discovered the defect. Matters would then be reversed. It would then affect his pocket-book, and he would then be the most interested party to keep vigilant watch that no unnecessary waste occurred upon his premises.

Respectfully submitted.

R. C. P. COGGESHALL,
Superintendent.

TABLE A.

SHOWING RAINFALL AT STORING RESERVOIR FOR 1889.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		.03		.44				2.02		.78	.34	
2				.67		1.70		.62				
3							.92	1.14			.50	.22
4				.06		.77	.18				.25	.04
5		.55	.73					.39				.17
6	1.52	.32	.67									
7	1.73		.23							.70		
8	.22								.08			
9		.32		.03		.02		.24			1.01	.98
10	1.07									.16	.82	
11					.40	.35	.05		.40			.15
12		.27		.21	.14				.70			
13				.37		.02			.12	1.80	.27	
14					.60			1.40		1.16		
15					.05	.03	.75	05	.15	.24		.55
16			.30									
17	1.33	1.15	1.12	1.06		.14			.04			
18			.30	.22								
19									1.48		.44	.42
20	.77				.50		1.23		.22		1.94	
21			.33		.61				.21	.18		
22		.05									.38	.08
23					.73		.08					
24	.05	.02						.96				
25				.11							.10	
26		.02			.78				.11			.10
27	.61			2.10	.60		1.92		.17	1.08		
28	.12			.16	.76						2.72	
29			.03	.08			.04					
30												
31			.50									
Totals,	7.42	2.73	4.21	5.51	5.17	3.03	5.17	6.82	3.68	6.10	8.77	2.71

Total fall for the year, 61.48 inches.

TABLE A.

RAINFALL AS RECORDED AT THE STORING RESERVOIR FOR THE PAST 12 YEARS.

Years.	MONTHS.												Totals.
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
1878,	8.03	5.75	6.71	6.13	3.29	2.66	2.89	3.60	1.30	8.88	7.96	6.77	63.97
1879,	3.31	2.57	6.27	7.14	2.25	4.34	4.89	5.74	2.86	1.02	4.44	4.63	49.45
1880,	2.02	3.13	5.12	5.79	1.32	1.94	9.46	7.91	2.27	3.87	3.49	3.28	49.60
1881,	5.82	7.48	7.21	2.16	3.17	8.92	1.80	1.28	5.24	.75	6.51	2.98	53.32
1882,	3.80	6.40	3.99	5.05	4.55	3.48	3.02	1.36	7.78	4.39	2.58	3.70	50.10
1883,	5.92	4.44	1.63	2.80	3.70	2.14	4.97	.70	2.68	8.05	3.82	3.55	44.40
1884,	5.55	6.68	5.53	6.03	3.20	4.45	4.67	8.17	.96	2.47	4.84	8.05	60.60
1885,	6.14	4.03	1.38	2.13	3.63	3.61	2.54	3.48	1.49	6.14	2.23	4.78	41.58
1886,	6.20	8.86	4.87	2.44	3.99	1.38	2 87	3.50	2.15	4.58	5.06	7.47	53.37
1887,	5.71	5.80	5 65	4.85	2.82	3.51	2.68	3.22	1.01	4.56	3.19	4.92	47.92
1888,	5.50	3.57	5.98	2.38	6.26	1.58	5.67	4.28	10.35	3.88	11.47	5.00	65.92
1889,	7.42	2.69	4.21	5.51	5.17	3.03	5.17	6.82	3.68	6.10	8.77	2.71	61.48
Totals,	65.42	61.40	58.55	52.41	43.35	41.04	50.63	50.06	41.77	54.69	64.36	57.84	641.71
Av'ges,	5.45	5.12	4.72	4.37	3.61	3.42	4.22	4.17	3.48	4.56	5.36	4.82	53.47

TABLE A.

Showing Rainfall at Pumping Station for 1889.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1								.09		.01	.05	
2				.69			.02	.47				
3				.04		1.92	.66	.43			.65	.09
4						.67	.07					.02
5						.01		.42				.12
6		.72	.90									
7	2.56						.01			.58		
8												
9	.60	.45		.07				.16	.04	.01		.79
10					.02		.03			.13	1.44	
11		.20		.21	.04	.50	.09				.01	.10
12				.06	.08	.03			1.00			
13				.28	.57	.01	.02		.12	1.16	.23	.02
14					.12			1.11	.02			.51
15						.02	1.29		.20	.72		
16									.02			
17	1.10	.64		.99		.02						
18		.65	.62	.12		.20						
19								.02	1.65		1.57	.40
20				.01	1.24		1.17		.13		.09	.01
21	.93		.42		.48		.02		.17	.20	.39	
22		.01			.01	.13						.06
23					.76		.36					
24	.04							.88			.01	.37
25		.07		.04							.08	
26				1.54	.68	.01				.01		.11
27	.62	.01	.13	.10	1.35		1.59		.18	.79		
28			.05	.01							2.07	
29				.06			.14			.01		.02
30			.13		.02		.02		.59			
31	.06		.44		.03		2.08			.26		
Totals.	5.91	2.75	2.69	4.22	5.40	3.52	7.57	3.58	4.12	3.88	6.59	2.62

Total fall for year, 52.85 inches.

TABLE A.

Showing Rainfall at New Bedford, as registered by T. R. Rodman, for 1889.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		.05						1.88				
2				.64				.33				
3						1.84		.61			.68	
4				.04		.58	.55					
5							.05	.48				
6	2.68	.80	.93									.23
7	.15									.60		
8				.08								
9		.48										.82
10	.68				.05			.17		.14	1.56	
11						.90			.14			.09
12		.23		.21	.06	.06	.10		.90			
13				.34					.08	1.22	.24	
14					.59			1.29				
15							1.40		.19	.78		.60
16												
17	1.10	.61				.24						
18		.64	.67	1.40								
19									1.45			.38
20					1.04		1.28	.02			1.48	
21	.48		.41		.43		.02		.23	.24		
22						.21						.06
23					.88		.18					
24								.95				
25	.06	.10		.02								.36
26				1.48	.78							.13
27		.01					.02		.16	.86		
28	.64		.22	.10	1.26		1.74				2.11	
29							.10					
30			.10						.72			
31			.50		.05					.27		
Totals.	5.79	2.92	2.83	4.31	5.14	3.83	5.44	5.73	3.87	4.11	6.07	2.67

Total for year, 52.71 inches.

TABLE A.

Rainfall for the past 76 Years. Furnished from the Records of Thomas R. Rodman.

Years.	Months.												Totals.
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
1814	1.42	8.30	2.16	5.46	4.23	2.27	.99	6.44	3.06	1.73	5.37	1.65	43.08
1815	4.55	3.32	5.02	4.66	4.11	2.22	1.96	4.36	2.51	1.47	3.45	3.15	40.78
1816	2.12	6.82	2.47	5.50	6.15	2.33	1.01	1.46	6.05	3.96	5.56	.70	44.13
1817	3.96	5.26	1.77	2.60	1.19	7.00	.88	3.21	4.09	1.19	6.64	5.54	43.33
1818	3.31	.91	3.31	3.94	6.79	3 51	3.32	1.66	5.52	2 84	3.35	2.31	40.77
1819	1.25	2.54	7 30	3.31	2.06	3.32	1.57	6.00	4.81	3.84	1.92	1.74	39.66
1820	1.46	5.02	4.44	1.23	5.41	.46	3 71	4.38	2.01	6.22	3.75	3.23	41.32
1821	2.32	5 96	2.52	6 09	5.42	3.78	2.41	2.23	4.11	4 96	2.94	2.90	45.64
1822	3.29	3.70	3.31	4.76	.58	2.58	5.14	3.51	6.05	2.97	3.62	2.27	41.78
1823	4.84	5.00	8.43	1 83	7.67	3.20	4.63	3 90	2.08	5 06	3.51	9.74	59.89
1824	3.84	5.32	3.61	5.74	2.68	3.14	2.44	6.21	4 88	2.55	3.54	3.39	47.34
1825	2.80	2.21	6.06	1.42	2.11	3.71	2.06	3.52	1.68	2.78	1.81	7.93	38.09
1826	2.19	3.85	4.08	2.92	.73	2.11	2.44	18 72	1.44	7.47	4.50	4.32	54.77
1827	3.14	3.99	4.88	3.46	6.94	4.42	4 36	7.63	5.65	6.68	8.42	3.33	62.90
1828	3.02	3.25	4.31	3.48	3 91	4.04	3.02	1.15	3.63	3.62	5.16	.45	39.04
1829	9.06	5.76	7.03	4.79	8.59	2.92	3.40	7.53	3.49	3.53	7.18	2.13	65 41
1830	4.20	3 07	4.77	2.25	6.63	3 71	2 00	6.22	5 20	3.54	6.18	6.89	64.66
1831	7.47	3.53	5.24	7.38	4.45	3.52	7.26	3.32	5.86	6.04	3 68	3.43	61.18
1832	3.98	5.36	3.02	3.41	6.55	.41	1.69	8.30	3.00	2.64	4.43	6.52	49.31
1833	3.91	2.37	1.92	2.31	4 14	4.25	1.38	2.57	1.88	5.70	5.51	6.68	42.62
1834	2.76	1.61	1.95	2.94	4.74	7.30	3.42	1.81	5.63	5.25	4.23	3.48	45.12
1835	3.35	1.80	6.52	6.84	2.65	2 52	1.56	10.16	.90	2.99	2.97	4.95	47.21
1836	9.53	4 62	3.78	2.78	1.76	4 93	1.90	1.12	1.28	2.58	4.53	4.02	42.83
1837	3.69	3.75	4.47	3.33	6.47	4.41	2.15	4.37	.54	1.34	1.50	3.05	39.07
1838	3 00	2.41	2.90	2.15	3.02	2.84	1.55	2.99	6.71	5.38	4.36	.97	38.28
1839	.77	2.71	2.44	4.83	4.96	2.51	2.76	5.89	3.38	5.86	2.01	6.26	44.38
1840	3.25	2.68	3.99	4.56	5.82	3.69	2.14	2.88	3.07	6.93	7.52	3.06	49.59
1841	5.57	1.75	4.06	9.27	1.66	1.44	3.05	5.05	2.90	4.70	5.30	5.85	50.60
1842	2.47	4.34	2.89	3.77	3.17	7.40	1.34	1.97	2.00	.86	3 06	5.79	39.06
1843	3.94	4.18	4 02	6 19	1.39	1.45	3.31	7.13	1.77	6.86	5.09	5.34	50.67
1844	4.19	2.18	6.65	1.79	2.60	.90	3.08	2.49	4.15	4.56	4.01	4.13	40.73
1845	4.16	3.00	3.34	1.87	3.79	2.34	3.09	3.37	4.49	4.29	9.72	4.90	48.06
1846	3.09	2.57	1.74	1.20	6.40	.99	2.61	3.07	2.48	1.68	3.80	4.88	34.51
1847	3.33	4.57	3.25	1.66	2.64	6.46	2.41	7.15	7.20	.62	1.52	5.10	45.91

1848	3.75	4.22	2.89	1.46	3.88	2.99	4.04	1.16	1.89	5.43	3.30	5.73	40.74
1849	.88	2.07	5.70	2.23	2.43	1.59	1.22	4 88	1.24	5.71	5.15	3.32	36.42
1850	5.87	2 22	6.05	9.25	4.49	1.23	2.26	6.29	12.06	2.62	2.82	7.51	62.67
1851	2.24	6.20	3.27	4.84	4.78	1.18	9.22	3.49	3.75	5.37	4.76	2.51	51.61
1852	3.91	3 57	5.50	7.86	3.50	1.71	2.55	5.49	2.01	2.03	3.66	4.35	46.14
1853	1.69	4.67	1.28	3.92	4.36	.92	3 95	2.95	3.84	3.52	3.92	4.45	39.47
1854	1.99	5.67	2.15	6 83	3.565	3.025	7.435	.235	8.37	1.485	9.665	3.40	53.82
1855	4.725	2.62	1.95	4.24	3.635	1.835	4.79	1 42	.62	4.655	4 825	5.68	40.995
1856	5.185	1.27	1.64	3.205	3.96	2.115	3.32	2.81	4.555	1.89	3.26	3.88	37.09
1857	6.20	1.845	2.52	5.905	3.69	2.305	4.615	3.94	2.315	2 635	1.845	5.49	43.305
1858	2.465	1 28	2.28	4.39	2.025	5.155	6.75	5.05	3.015	3.205	3.835	4.58	44.03
1859	8.53	4.40	6.64	3.44	5.135	6.155	.955	4.015	3.645	2 07	2.105	4.34	51.43
1860	1.37	3.50	2.825	2.865	2.795	3.26	2.96	5.00	5.245	1.825	3.435	4.65	39.73
1861	4.19	3.25	4.06	5.44	4.42	3.115	1.705	5.00	3.50	4.295	4 58	2.905	46.46
1862	3.27	3.875	2.805	1.665	2.855	8.05	3.065	1.20	3.985	5.625	4.47	2.455	43.32
1863	2.75	4.165	4.265	4.335	3.520	2.49	4.265	2.51	2.50	1.895	7.03	5.37	45.095
1864	4.35	1 5.	5.52	3.10	2.93	1.08	1.50	7.675	2.28	2.35	4.185	4.485	40.965
1865	5.51	3.915	4.90	3.235	6.36	1.66	5.15	1.21	.265	4.93	4.47	4 405	46.01
1866	2.30	4 54	3.695	2 06	4.15	4.175	1.855	3.60	5.325	2.635	2.65	3.31	40.295
1867	2.845	5.085	5.58	3.175	3.85	2.36	6.03	5.705	2.435	3.96	1.99	4.095	47.11
1868	6.17	2.43	4.64	5.96	9.42	6.51	3.785	4.495	5.91	1.68	2.985	2.34	56.325
1869	3.97	5.335	6.215	1.42	5 915	4 45	1.625	2.765	2.62	6.75	2.305	6.565	49.935
1870	6.195	4.55	3 46	6.195	3.505	3.62	3.05	1.69	1.28	6.64	3.28	3.70	47.165
1871	3.255	3 28	4.86	3.93	2.675	5.39	1.92	6.35	2.235	6.385	6.985	2.335	49.60
1872	2.645	2 415	5.33	2 27	3.51	2.685	6.395	4 04	4.58	5 79	3.585	4.42	47.665
1873	7.235	4.93	2.89	3.985	4.95	1.435	1.225	4.165	3.17	5.335	6.315	6.06	51.695
1874	4.27	4.27	1.59	8.57	5.11	3.695	3.845	7.66	2.94	.55	3.49	3.345	49.335
1875	3.78	3.67	7.86	4 045	4.195	4.985	4.005	4.595	2.38	3.02	4.855	.94	48.33
1876	1 015	4 85	5.535	3.850	1.68	.73	3.865	1.23	4.40	1.52	8.420	5.09	42.185
1877	3.060	1.79	9.420	3.130	2.92	2.36	4 930	3.39	.83	7.66	6.595	.95	47.035
1878	5.970	4.05	4.770	4.945	2.91	2.97	2 360	5.38	1.04	5.93	5.740	4.49	50.555
1879	3.420	3.00	5.560	5.120	1.83	2.78	3.590	4.37	3.18	1.19	3.550	4.72	42.310
1880	2.060	2.97	4.850	3.490	1.37	1 96	6.590	5.62	1.68	3.11	2.440	3.92	40.070
1881	4.140	5 83	4.740	1.790	2.39	5.14	1.650	.79	3.29	1.52	5.780	2.04	39.100
1882	4.140	6.23	2.480	4.060	4.74	1.70	1.520	.89	6.26	4.00	1.910	3.45	41.380
1883	4.730	4.67	2.080	2.930	3.60	1.46	6.920	.85	2.74	6.36	3.280	3.89	43.510
1884	4 850	5.72	5.290	5.170	3.33	5.38	4.800	8.49	.98	1.63	3.550	5.80	54.990
1885	5.200	2.76	1 490	2.650	3.15	4.06	1 170	4.23	1.85	4 04	3.160	3.04	36.810
1886	6.770	7 05	5.090	2.190	4 39	1.99	2.690	2.76	2.15	4.23	3.760	6.78	49.850
1887	6.020	6.25	5.830	5 450	2 24	3.15	3 610	6.68	1.71	3.95	2.600	4.28	51.770
1888	4 380	2.63	5.660	2.420	5.57	1.45	5.170	4 89	9.52	2.66	7.390	3.33	55.070
1889	5.79	2.92	2.83	4.31	5.14	3 83	5.44	5.73	3.87	4.11	6.07	2.67	52.71
Totals,	298.315	289.185	315.340	301.055	302.280	240.210	257.830	326 460	264.970	288.885	330.140	311.09	3525.820
Av'ges,	3.925	3.805	4.149	3.961	3.977	3.161	3.393	4.296	3.486	3.801	4.344	4.093	46.392

TABLE B.

Statement of work done by Pumping Engine No. 1 (McAlpine) for the year ending December 1, 1889.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL. Coal. lbs. of wood = 1 lb. coal in pounds.	FUEL. Coal. Raising steam and banking.	FUEL. Coal. Ashes and clinkers.	FUEL. Coal. Pumping.	FUEL. Coal. Total.	FUEL. Total fuel.	Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Av. dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high, per 100 pounds of coal, calculated on total fuel used for all purposes, no deduction.	Average duty in pounds raised one foot high, per 100 pounds of coal, calculated on amount of combustible coal used while pumping.
		H. M.	STROKES		LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	GALS.	GALS.	GALS.	FEET.	LBS.	LBS.
December, 1888,																
January, 1889,	14	196 15	178,445	15.2	133	16,800	11,890	62,890	91,580	91,713	52,284,385	571	763	133.6	63,544,229	92,667,068
February,	8	121 00	111,031	15.3	0	9,600	7,163	37,737	54,500	54,500	32,532,083	597	800	134.1	66,778,971	96,442,852
March,																
April,	2	27 00	25,010	15.5	117	1,800	1,677	9,580	13,057	13,174	7,327,930	561	754	134.4	62,367,481	85,765,051
May,	27	383 10	352,543	15.3	0	16,200	22,880	136,720	175,800	175,800	103,295,099	588	791	134 5	65 924,377	84,768,180
June,	3	41 30	38,306	15.4	0	1,800	2,522	15,078	19,400	19,400	11,223,658	579	778	134.4	64,838 563	83,424,070
July,																
August,	27	444 25	413,366	15.5	117	13,800	25,818	155,039	194,657	194,774	121,116,238	622	841	135.3	70,177,748	88,163,628
September,	25	412 45	377,335	15.6	0	9,600	23,859	142,241	175,700	175,700	110,559,155	629	851	135.3	71,004,651	87,706,900
October,	2	30 00	28,140	15.6	0	600	1,586	10,034	12,220	12,220	8,245,020	675	920	136.4	76,737,103	93,454,993
November,																
Totals and Av.,	108	1656 05	1,524,176	15.4	367	70,200	97,395	569,317	736,914	737,281	446,583,568	606	818	135.0	68,202,718	88,324,376

TABLE B.

Statement of work done by Pumping Engine No. 2 (Worthington) for the year ending December 1, 1889.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL.					Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Av. dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high, per 100 lbs. of coal, calculated on total fuel used for all purposes, no deduction.	Average duty in pounds raised one foot high, per 100 pounds of coal, calculated on amount of combustible coal used while pumping.
					lbs. of wood = 1 in pounds Coal 3	COAL.									
						Raising steam and banking.	Ashes and clinkers.	Pumping.	Total.	Total fuel.					
	Number	H. M.	STROKES		LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	GALS.	GALS.	GALS.	FEET.	LBS.	LBS.
December, 1888,																
January, 1889,																
February,	14	325 30	349,870	18.0	0	900	13,897	92,103	106,900	106,900	51,780,760	484	616	126.2	50,969,793	59,158,451
March,																
April,																
May,																
June,	6	125 30	139,768	18.5	0	1,200	5,629	36,471	43,300	43,300	20,685,664	478	603	126.3	50,313,229	59,734,113
July,																
August,																
September,	1	12 00	13,982	19.4	0	600	585	3,315	4,500	4,500	2,069,336	460	578	125.6	48,185,068	65,409,595
October,																
November,																
Totals and Av.,	21	463 00	503,620	18.6	0	2,700	20,111	131,889	154,700	154,700	74,535,760	482	608	126.2	50,702,683	59,472,019

TABLE B.

Statement of work done by Pumping Engine No. 3 (Worthington) for the year ending December 1, 1889.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped monthly, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Av. dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high, per 100 lbs. of coal, calculated on total fuel used for all purposes, no deduction.	Average duty in pounds raised one foot high, per 100 pounds of coal, calculated on amount of combustible coal used while pumping.
					lbs. of wood = Coal in pounds.	COAL.										
					Wood 3	Raising steam and banking.	Ashes and clinkers.	Pumping.	Total.	Total fuel.						
		H. M.	STROKES		LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	GALS.	GALS	GALS	FEET.	LBS.	LBS.
December, 1888,	27	473 10	534,676	18.8	67	12,600	16,130	130,230	158,960	159,026	103,727,144	652	831	127.5	69,374,952	84,714,898
January, 1889,	13	212 25	237,687	18.6	66	6,000	7,090	57,434	70,524	70,591	46,111,278	654	836	128.0	69,715,933	85,701,404
February,	4	85 30	88,254	17.2	67	600	3,575	23,411	27,586	27,653	17,121,276	620	792	127.7	65,966,140	77,918,956
March,	25	481 55	519,855	18.0	0	11,400	19,910	122,040	153,350	153,350	100,851,870	658	837	127.3	69,800,437	87,708,105
April,	24	409 20	444,585	18.1	0	12,000	17,432	104,318	133,750	133,750	86,249,490	645	822	127.6	68,619,166	87,988,779
May,																
June,	18	348 25	373,438	17.8	50	6,600	13,612	85,943	106,155	106,205	72,446,972	682	873	127.8	72,740,457	89,889,814
July,	27	606 00	672,558	18.5	0	4,800	23,855	155,445	184,100	184,100	130,476,252	709	907	128.0	75,681,442	89,632,690
August,																
September,																
October,	25	504 30	565,661	18.7	50	7,800	19,994	126,096	153,890	153,940	109,738,234	713	910	127.6	75,891,538	92,649,595
November,	26	509 25	571,051	18.6	0	9,000	19,246	121,954	150,200	150,200	110,783,894	738	940	127.5	78,454,734	96,625,335
Totals and Av.,	189	3630 40	4,007,765	18.3	300	70,800	140,844	926,871	1,138,515	1,138,815	777,506,410	683	871	127.6	72,689,510	89,311,020

TABLE C.

Location and Size of Pipe laid in 1889.

STREETS.	CAST IRON.					
	20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Austin street, from 6 feet east of Shawmut avenue west,					32	
Bay street, from 3 feet east of Ward street west to pipe line,					30	
Bedford street, from 2 feet east of Sixth street west,					88	
Blackmer street, Second to Acushnet avenue,					268	
Bonney street, from 122 feet south of Rockland south,						84
Bonney street, Rivet north,					226	
Campbell street, from 179 feet west of Cottage, west to Cedar,					162	
Cedar Grove street, State to County,					210	
Chestnut street, from north line Pope south,					38	
Cherry street, Sixth west,						26
Clark street, County west,					191	
County street, Penniman south,					17	
County street, Cedar Grove north,					72	
County street, from terminus north of Linden north,					221	
Coggeshall street, from 121 feet east of Howard east,					452	
Coffin avenue, Acushnet avenue east,					385	
Cottage Road, from 222 feet west of Bolton Road west,					214	
Dartmouth street, from terminus south of Rivet south,				294		
Elm street, Rounds east,					218	
First street, from 132 feet north of Rivet south to Rivet,						158
Fourth street, from 48 feet south of Thompson south,						93
Front street, Cedar Grove south,					134	
Gifford street, Water east,			727			
Hall street, Rockland south,					222	
Harmony street, Social south,					131	
Hawthorn street, Page west,				139		
Hickory street, Dartmouth west,					122	
Howard street, from 152 feet north of Cedar Grove north,						115
Katherine street, from terminus west of County west,					86	
Liberty street, from 424 feet south of Kempton south,						221
Madison street, from 12 ft. east of Sixth west,				141		

TABLE C — *Continued.*

STREETS.	CAST IRON.					
	20 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Page street, Hawthorn south,				444		
Poplar Road, from 254 feet west of Bolton Road west,					178	
Richmond street, Locust south,					196	
Russell street, Sixth west,					25	
Sawyer street, Acushnet avenue east,				1878		
School street, Sixth west,					22	
Shawmut avenue, Austin south,				98		
Shawmut avenue, Parker north,				533		
Sixth street, Union to 14 feet south of south line Bedford,	2217					
Social street, French avenue east,					237	
South street, Water west,				20		
South Beach Road, from 268 feet west of Bolton Road west,				60		
Tremont street, Arnold to Hawthorn,				748		
Walnut street, from 12 feet east of Sixth west,					59	
Water street, Grinnell to 13 feet south of south line Gifford,		2801				
Ward street, Bay south,					75	
Weld street, from 3 feet west of State west,			83			
Welcome street, French avenue east,					241	
Winsor street, from terminus west of County west,					409	
Willis street, from 288 feet east of Summer east,					24	
Totals,	2217	2801	810	4355	4985	697

Taken Up.

STREETS.	CAST IRON.			CEMENT LINED.	
	16 in.	6 in.	4 in.	6 in.	4 in.
Bedford street, at junction of Sixth,				102	
City wharf, from 3 feet east of Water east,			106		
Gifford street, Water east,			279		
Hawthorn street, Page west,			139		
School street, from Sixth street main west,					22
Sixth street, from Union street main south,	30				
Sixth street, from 13 feet south of Union south to Bedford,					2163
Sixth street, Bedford south,		28			
South street, Water west,		20			
Tremont street, Arnold south,		300			
Walnut street, from 12 feet east of Sixth west,				59	
Water street, Grinnell to 13 feet south of Gifford,		2801			
Totals,	30	3149	524	161	2185

Summary.

	30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Previous to 1889:									
Cement,					6179	5722	7467	9342	19900
Cast-iron,	1879	2373	6236	17625	3143	15164	55182	82690	79686
Cast-iron laid in 1889			2217		2801	810	4355	4985	697
Total pipe laid,	1879	2373	8453	17625	12123	21696	67004	97017	100283
Cement removed '89,								161	2185
Cast-iron removed "				30				3149	524
Total pipe now in use	1879	2373	8453	17595	12123	21696	67004	93707	97574

Total length laid in 1889, 15,865 feet $= 3\frac{0047}{10000}$ miles.
Total length removed in 1889, 6049 feet $= 1\frac{1457}{10000}$ miles.
Total length in use Dec. 1, 1889, 322,404 feet $= 61\frac{1061}{10000}$ miles.

TABLE D.

Small Sized Distribution Pipe laid in 1889.

STREETS.	CAST IRON.
	2 inch.
Kempton street, from 73 feet east of Acushnet ave. east,	52 feet.
Total.	52 feet.

Total length laid in 1889, 52 feet.
Previously laid, 5820 feet.
Total length in use Dec. 1, 1889, 5872 feet $= 1\frac{1112}{1000}$ miles.

TABLE E.

Location of Stop Gates set in 1889.

STREETS.	LOCATION.	SIZE.						
		20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Austin st., east side Shawmut avenue,	On east line Shawmut avenue; 14.3 feet north from S. line Austin,						1	
Bedford st., west side Sixth.	On west line Sixth; 14.0 feet north from south line Bedford,						1	
Blackmer street, E. side Water,	On east line Water; 9.2 feet north from south line Blackmer.					1		
Blackmer street, W. side Water,	0.5 foot west from west line Water; 14.0 feet north from south line Blackmer,					1		
Bonney street, N. side Rivet,	On north line Rivet; 18.0 feet east from west line Bonney,						1	
Campbell street, E. side Cedar,	0.5 foot east from east line Cedar; 13.7 feet north from south line Campbell,						1	
Cedar Grove st., W. side State,	0.9 foot east from west line State; 14.2 feet north from south line Cedar Grove,						1	
Cherry st., west side Sixth,	On west line Sixth; 14.0 feet north from south line Cherry,							1
Coffin ave., east side Acushnet avenue,	On east line Acushnet avenue; 13.4 feet north from south line Coffin avenue,						1	
First st., north side Rivet,	0.7 foot north from N. line Rivet; 14.3 feet east from west line First,							1
Gifford st., east side Water,	1.0 foot east from east line Water; 26.5 feet south from north line Gifford,				1			
Hall street, south side Rockland,	1.6 feet south from south line Rockland; 13.7 feet east from west line Hall,						1	
Hickory st., W. side Dartmouth,	On west line Dartmouth; 13.7 feet north from south line Hickory,						1	
Madison st., W. side Sixth.	0.6 foot west from west line Sixth; 14.0 feet north from south line Madison,					1		
Madison st., E. side Sixth,	On east line Sixth; 14.0 feet north from south line Madison,					1		
Page st., south side Hawthorn,	On south line Hawthorn; 18.2 feet east from west line Page,					1		
Pumping station	Con. with old force main,		1					
Purchase street, at hydrant,	2.5 feet north from north line Mechanics lane; 11.8 feet west from west line Purchase,						1	

Location of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE.						
		20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Russell st., west side Sixth,	0.3 foot west from west side Sixth; 14.2 feet north from south line Russell,						1	
Sawyer st., east side Acushnet avenue,	0.5 foot east from east line Acushnet avenue; 14.0 feet north from south line Sawyer,					1		
Sawyer st., east side Rock,	On east line Rock; 18.0 feet north from south line Sawyer,					1		
Sawyer st., west side Rock,	On west line Rock; 18.0 feet north from south line Sawyer,					1		
School st., west side Sixth,	0.7 foot east from west line Sixth; 13.7 feet north from south line School,						1	
Shawmut av., N. side Parker,	1.2 feet north from north line Parker; 14.4 feet east from west line Shawmut avenue,					1		
Sixth st., south side Union,	On south line Union; 9.4 feet east from west line Sixth,	1						
Sixth st., south side Walnut,	1.6 feet south from south line Walnut; 10.2 feet east from west line Sixth,	1						
Sixth st., south side Bedford,	1.5 feet south from south line Bedford; 9.8 feet east from west line Sixth,	1						
Social st., E. side French ave.,	On east line French avenue; 18.5 feet north from south line Social,						1	
South st., west side Water.	1.2 feet west from west line Water; 15.2 feet north from south line South,					1		
Spring st., west side Sixth,	0.5 foot west from west line Sixth; 14.2 feet north from south line Spring,							1
Tremont street, south side Arnold,	0.4 foot north from south line Arnold; 14.1 feet east from west line Tremont,					1		
Walnut st., west side Sixth,	On west line Sixth; 14.2 feet north from south line Walnut,						1	
Walnut st., east side Sixth,	0.3 foot east from east line Sixth; 14.2 feet north from south line Walnut,						1	
Water st., south side Grinnell,	On south line Grinnell, 14.0 feet east from west line Water,			1				
Water st., south side South,	0.5 foot south from south line South; 13.2 feet east from west line Water,			1				
Water st., south side Potomska,	0.8 foot south from south line Potomska; 14.7 feet east from west line Water,			1				

LOCATION OF STOP GATES — *Concluded.*

STREETS.	LOCATION.	SIZE.						
		20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Water st., north side Rivet,	On north line Rivet; 14.2 feet east from west line Water.			1				
Water st., south side Rivet,	On south line Rivet; 13.9 feet east from west line Water.			1				
Water st., north side Delano,	2.0 feet north from north line Delano; 13.5 feet east from west line Water,			1				
Water st., north side Gifford,	On north line Gifford; 13.1 feet east from west line Water.			1				
Water st., south side Gifford,	On south line Gifford; 13.0 feet east from west line Water.			1				
Welcome street, E. side French avenue;	0.4 foot west from east line French avenue; 18.3 feet north from south line Welcome,						1	
	Totals,	3	1	8	1	11	15	3

REMOVED.

Gifford street, east side Water,	4-inch.
Sixth street, south side Union,	16-inch.
Sixth street, north side School,	4-inch.
Sixth street, south side Walnut,	4-inch.
Sixth street, south side Bedford,	6-inch.
South street, west side Water,	6-inch.
Tremont street, south side Arnold,	6-inch.
Water street, south side Grinnell,	6-inch.
Water street, north side South,	6-inch.
Water street, south side South,	6-inch.
Water street, south side Potomska,	6-inch.
Water street, north side Rivet,	6-inch.
Water street, south side Rivet,	6-inch.
Water street, north side Division,	6-inch.

Number of stop gates set in 1889,	42
Number removed in 1889,	14
	28
Number in use at date of last report,	615
Total number in use, Dec. 1st, 1889,	643

TABLE F.

Small Sized Stop Gates set in 1889.

STREETS.	LOCATION.	SIZE. 1 inch.
Cornell court.	On west line Hall street; 6.0 feet north from south line Court,	1
	Total.	1

Number of small sized stop gates set in 1889.	1
Removed, Hall street, south side Rockland, 1 $\frac{5}{8}$-inch.	1
	0
Previously set.	62
Total number in use Dec. 1, 1889.	62

TABLE G.

Private Stop Gates set in 1889.

STREETS.	LOCATION.	SIZE. 6 in.	4 in.
Bedford st., at No. 4 eng. house	6.5 feet south from north line Bedford; 46 feet west from west line Sixth,		1
Coffin street, at Gas Light Co.,	6.3 feet south from north line Coffin; 259.8 feet east from east line Water,		1
Gifford street, at Acushnet mill,	6.0 feet south from north line Gifford; 343.5 feet east from east line Water.	1	
Gifford street, at Acushnet mill,	At Acushnet mill meter.		3
Gifford street, at Hathaway mill,	At Hathaway mill meter.		3
Gifford street, at Hathaway mill,	31.0 feet north from south line Gifford; 445.7 feet east from east line Water,	1	
Howland mill,	At Howland mill meter, mill No. 2,	3	
Howland mill.	7.0 feet north from south line private way at mill No. 2; on east line Bolton road.	1	
Sawyer street, at Bennett mill,	At Bennett mill meter,	3	
Sawyer street, at hydt. at Bennett mill.	7.7 feet north from south line Sawyer; 61.0 feet east from east line mill,		1
	Total.	9	9

Number set during 1889.	18
Previously set,	122
Total number in use Dec. 1st, 1889,	140

TABLE H.

Waste Gates set in 1889.

STREETS.	LOCATION.	SIZE. 4 in.
Bedford, at Sixth,	19.0 feet east from west line Sixth; 17.2 feet north from south line Bedford,	1
Potomska, at Water,	11.1 feet east from west line Water; 15.5 feet north from south line Potomska,	1
Walnut, at Sixth	14.8 feet west from east line Sixth; 17.2 feet north from south line Walnut,	1
Water, at Potomska,	25.4 feet south from south line Potomska; 17.2 feet east from west line Water,	1
	Total,	4

Number set during 1889,	4
Removed, Gifford street 249 feet east of Water, 1-in.,	1
To be added to total number last reported,	3
Number in use at date of last report,	62
Number in use Dec. 1, 1889,	65

TABLE I.

Location of Hydrants set in 1889.

Bedford street, southwest corner Fifth.
Cedar Grove street, northwest corner County.
Clark street, south side, 170 feet west of County.
Coffin avenue, south side, 347 feet east of Acushnet avenue.
Coggeshall street, south side, 75 feet west of Rock.
Coggeshall street, southwest corner Front.
Cottage road, south side, 435 feet west of Bolton road.
County street, southwest corner of Morgan.
County street, southwest corner of Smith.
County street, northwest corner Locust.
County street, southwest corner Penniman.
Dartmouth street, southeast corner Larch.
Elm street, south side, 43.5 feet west of Florence.
Gifford street, south side, 274 feet east of Water.
Gifford street, south side, 700 feet east of Water.
Harmony street, southwest cor. Social.
Katherine street, south side, 212½ feet east of Crapo.
Madison street, southwest corner Sixth.
Page street, west side, 429½ feet south of Hawthorn.
Poplar road, south side, 431 feet west of Bolton road.
Purchase street, west side, at Central engine house.
Russell street, southwest corner of Sixth.
Sawyer street, southeast corner of Rock.
Sawyer street, north side, 717 feet east of Rock.
School street, southwest corner Sixth.
Shawmut avenue, west side, head of Locust.
South street, southwest corner Water.
South Beach road, south side, 327 feet west of Bolton road.
Tremont street, northwest corner Maple.
Ward street, west side, 62 feet south of Bay.
Water street, northwest corner of Potomska.
Water street, west side, 266 feet south of Potomska.
Water street, northwest corner Rivet.
Water street, southwest corner Blackmer.
Water street, northwest corner Delano.
Water street, west side, head of Gifford.
Willis street, south side, 65 feet east of Reed's court.
Winsor street, south side, 77½ feet east of Crapo.

(The entire list, Post Hydrants.)

Taken Up.

Bay street, southeast corner Ward. Post.
Bedford street, southwest corner Fifth. Flush.
Coggeshall street, south side, 117½ feet east of Howard. Post.
Cottage road, south side, 227 feet west of Bolton road. Post.
County street, southwest corner Morgan. Post.
County street, southwest corner Smith. Flush.
County street, northwest corner Locust. Flush.
Dartmouth street, east side, 17 feet south of Rivet. Post.
Katherine street, south side, 300½ feet east of Crapo. Post.
Penniman street, south side, 220 feet west of State. Flush.
Poplar road, south side, 246 feet west of Bolton road. Post.
Purchase street, northwest corner Mechanics lane. Post.
Sixth street, southwest corner Russell. Flush.
Sixth street, northwest corner Madison. Flush.
Sixth street, southwest corner School. Flush.
South Beach road, south side, 256 feet west of Bolton road. Post.
Tremont street, west side, 287 feet south of Arnold. Flush.
Water street, southwest corner Delano. Flush.
Water street, southwest corner Blackmer. Flush.
Water street, northwest corner Rivet. Flush.
Water street, west side, 31 feet north of Potomska. Flush.
Water street, northwest corner South. Flush.
Willis street, south side, 42½ feet east of Reed's court. Post.

Total number set during 1889,	38
Total number taken up during 1889,	23
To be added to total number last reported,	15
Number in use at date of last report,	445
Total number in use Dec. 1, 1889,	460

TABLE J.

Statement of Work done by the Service Department, for the year ending Dec. 1, 1889.

KIND AND SIZE.	Number of Services.	Length on Taker.	Length on City.
Lead pipe, ½-inch, heavy,	92	1089.0	2018.0
" ⅝-inch, heavy,	107	2076.0	2429.0
" ⅝-inch, light,	60	618.5	1202.0
" ¾-inch, heavy,	5	16.5	93.0
" ¾-inch, light,	40	647.0	778.0
" 1-inch, heavy,	0	66.5	
" 1-inch, light,	7	189.0	146.0
Iron pipe, 2-inch,	2	114.5	
" 3-inch,	2	147.0	
" 4-inch,	1	2052.0	
" 6-inch,	4	2507.0	
Total,	320	9523.0	6666.0

One 1-inch heavy lead service has been taken up and replaced by 4-inch cast iron pipe.

One ⅝-inch iron service has been taken up and replaced by 1-inch light lead pipe.

One ½-inch heavy lead service has been discontinued.

Extensions made to Services Previously Laid.

KIND AND SIZE.	Number.	Length.
Lead pipe, ½-inch, heavy,	2	150
" ⅝-inch, light,	1	7
" made by owner,	3	
Totals,	6	157

Length of service pipe laid during the year, 16,346 feet $= 3\frac{946}{1000}$ miles.

Total number of services in use December 1, 1889. 6104

TABLE K.

Meters.

LOCATION.	PATTERN.	SIZE.
Acushnet Cooperative Association, 213 Acushnet ave.,	Ball & Fitts rotary.	1 inch.
Acushnet Mill,	Ball & Fitts rotary.	6 "
Acushnet Mill,	Ball & Fitts rotary.	4 "
Henry H. Allen, Sixth street,	Crown.	1 "
John S. Allen, State street,	Ball & Fitts rotary.	⅝ "
John S. Allen, State street,	Ball & Fitts rotary.	¾ "
Mrs. John Allen, 243 Purchase street,	Crown.	⅝ "
Timothy C. Allen, 188 Grinnell street,	Crown.	⅝ "
Mrs. Capt. Mich'l A. Baker, 22 Parker st.	Ball & Fitts rotary.	¾ "
Bennett Mill,	Ball & Fitts rotary.	6 "
Mrs. A. M. Blackler, 111 Summer street.	Ball & Fitts rotary.	¾ "
Nazaire Boivin, 7 Hicks street,	Ball & Fitts rotary.	2½ "
Nathan Brightman, 35 Smith street,	Crown.	½ "
Nathan Brightman, 107 Elm street,	Crown.	¾ "
Daniel Briggs, 43 Bedford street,	Crown.	⅝ "
George E. Briggs, Dartmouth street,	Ball & Fitts rotary.	1½ "
Albion T. Brownell, Madison & Fifth sts.	Crown.	⅝ "
Arthur E. Buffinton, Crapo street,	Crown.	½ "
S. C. Caldwell, Pleasant and Hazard sts.	Ball & Fitts rotary.	⅝ "
S. C. Caldwell, Pleasant and Hazard sts.	Crown.	⅝ "
Central wharf,	Ball & Fitts.	2 "
Cemetery, Rural, Dartmouth street,	Crown.	2 "
Cemetery, Oak Grove, Parker street,	Crown.	3 "
Nathan Chase, County street,	Crown.	¾ "
City Manufacturing Co., Grinnell street,	Ball & Fitts rotary.	6 "
Commercial wharf,	Ball & Fitts rotary.	3 "
Pardon Cornell, Sixth and Grinnell sts.,	Crown.	1 "
Abner T. Davis, 34 Fifth street,	Ball & Fitts rotary.	⅝ "
Benj. Dawson, Purchase and Hazard sts.	Crown.	1½ "
James Dowden, Mill street,	Ball & Fitts rotary.	¾ "
David Duff & Son, Central wharf,	Crown.	1 "
David Duff & Son, Fish Island,	Ball & Fitts rotary.	1½ "
Electric Light Co., Middle street,	Ball & Fitts rotary.	2 "
S. F. Fish, 59 Sycamore street,	Crown.	¾ "
David B. Folger, 140 Union street,	Thompson.	1 "
Simeon G. Folsom, Middle and Purchase streets,	Ball & Fitts rotary.	1 "
T. J. Gifford, 34 Hillman street,	Crown.	¾ "
T. J. Gifford, 32 Hillman street,	Crown.	⅝ "
Fred. S. Gifford, 186 Union street,	Crown.	1 "
Grinnell Mill, Kilburn street,	Ball & Fitts rotary.	4 "
James Groat, Purchase street,	Ball & Fitts rotary.	⅝ "
S. M. Hall, 161 Pleasant street,	Crown.	¾ "
Henry F. Hammond, Mill street,	Crown.	¾ "
Haskell & Tripp, William street,	Ball & Fitts rotary.	2 "
Hathaway Mill,	Ball & Fitts rotary.	4 "
Geo. Hastings, Hastings bldg., Purchase street,	Crown.	1 "

METERS — *Continued.*

LOCATION.	PATTERN.	SIZE.
James C. Hathaway, Florence and Kempton streets,	Crown.	¾ inch.
Hazard's wharf,	Ball & Fitts rotary.	2 "
N. P. Hayes, William street,	Crown.	1 "
Benj. Howland's est., 97 Grinnell street,	Crown.	½ "
Benj. Howland's est., 134 Acushnet ave.,	Crown.	½ "
Geo. Howland's wharf,	Ball & Fitts rotary.	2 "
Paul Howland, 91 State street,	Ball & Fitts rotary.	¾ "
Howland Mill No. 1,	Ball & Fitts rotary.	6 "
Howland Mill No. 2,	Ball & Fitts rotary.	6 "
James A. Jay, Second street,	Crown.	1 "
D. J. Kane & Bro., Union street,	Crown.	⅝ "
Tillinghast Kirby, 350 Cottage street,	Crown.	¾ "
C. W. Knight, 88 Purchase street,	Crown.	½ "
James M. Lawton, 80 State street,	Crown.	¾ "
James M. Lawton, Union street,	Crown.	¾ "
E. R. Lewis, 321 Union street,	Crown.	1 "
Joseph Longfield, Emerson street,	Crown.	⅝ "
Clarence Lowell, 40 Fifth street,	Crown.	⅝ "
James Marquand, 35 Maxfield street,	Crown.	⅝ "
C. E. E. Mosher, High street,	Crown.	¾ "
Merrill's wharf,	Ball & Fitts.	2 "
Moynan & Co., Union street,	Ball & Fitts rotary.	3 "
Mt. Washington Glass W'ks, Prospect st.	Ball & Fitts rotary.	2 "
William A. Murchie, 82 Chestnut street,	Crown.	¾ "
Thomas N. Nash, Acushnet avenue and Nash road,	Crown.	½ "
George Needham & Co., Union street,	Ball & Fitts rotary.	¾ "
New Bedford Gas Light Co., Cannon st.,	Ball & Fitts rotary.	3 "
New Bedford Manufacturing Co.,	Ball & Fitts rotary.	6 "
New Bedford Manufact'g Co., North st.,	Ball & Fitts rotary.	6 "
New Bedford Yacht Club, Pope's Island,	Ball & Fitts.	1 "
New England Embroidery Co., Hall's ct.,	Union rotary.	3 "
Nichols & Damon, Purchase st.,	Ball & Fitts rotary.	⅝ "
William F. Nye, Fish Island,	Crown.	1½ "
Leander P. Nichols, 59 Foster street,	Ball & Fitts rotary.	¾ "
Old Colony R. R. Co., Logan street,	Crown.	3 "
Oneko Mills, Purchase street,	Ball & Fitts rotary.	6 "
Pairpoint Manufact'g Co., Prospect st.,	Ball & Fitts rotary.	3 "
E. C. Palmer, Florence street,	Crown.	⅝ "
W. L. Palmer, 30 Allen street,	Ball & Fitts rotary.	¾ "
George H. Parker, Parker and Chestnut,	Thompson.	¾ "
Parker House, Purchase street,	Crown.	¾ "
J. W. Perry, Thomas street,	Crown.	¾ "
Henry Perry, County street,	Crown.	¾ "
P. & R. Coal and Iron Co. wharf,	Crown.	3 "
Thomas Pelan, 278 Kempton street,	Crown.	¾ "
George Pickens, Summer street,	Ball & Fitts rotary.	¾ "
Frank Pierce, 87 Mill street,	Crown.	¾ "
Joseph Poisson, 56 Mill street,	Crown.	⅝ "
William F. Potter & Co., Front street,	Crown.	1 "

METERS — *Concluded.*

LOCATION.	PATTERN.	SIZE.
Potomska Mills, Potomska street,	Ball & Fitts rotary.	6 inch.
Ezra Quimby, 135 Summer street,	Crown.	¾ "
Robeson Building, William street,	Crown.	½ "
Robeson Building, William street,	Crown.	½ "
Rotch's wharf,	Crown.	3 "
Salisbury & Viall, Cove street,	Ball & Fitts rotary.	¾ "
I. C. Sherman & Son, 76 Union street,	Ball & Fitts rotary.	2 "
A. G. Stanton, Grinnell street,	Crown.	¾ "
Levi H. Sturtevant 36 North street,	Ball & Fitts rotary.	1 "
W. D. Swan, Front street,	Ball & Fitts rotary.	2 "
Swan & Finch, Hastings' wharf,	Crown.	2 "
Taber, Read & Gardner, Acushnet ave.,	Crown.	1 "
Taber's wharf,	Ball & Fitts.	2 "
George M. Thatcher, Rockland street,	Crown.	1 "
Alfred Thornton, Union street,	Crown.	⅝ "
Theodore F. Tillinghast, Hicks street,	Crown.	⅝ "
W. C. Vaughan, 323 Purchase street,	Crown.	⅝ "
Vineyard Steamboat Co. wharf,	Crown.	3 "
Wm. Walker, Maxfield and Summer sts.,	Crown.	¾ "
Wm. Walker, County and Campbell sts.,	Crown.	¾ "
Wamsutta Mills, Acushnet avenue,	Ball & Fitts rotary.	8 "
Wamsutta Mills,	Ball & Fitts rotary.	6 "
Wamsutta Mills,	Ball & Fitts rotary.	6 "
Dr. Helen W. Webster, Purchase and Mill streets,	Equitable.	1 "
Benj. Winslow, Thompson and Warwick streets,	Crown.	⅝ "
Wordell Brothers, William street,	Crown.	3 "

Number of meters in use, Dec. 1st, 1889, . . 120.

TABLE L.

Motors.

LOCATION.	USED FOR.	Size of Supply Pipe.
Acushnet Cooperative Association, 213 Acushnet avenue.	Grinding coffee.	1 inch.
Baptist church, William street.	Blowing organ.	2½ "
Nazaire Boivin, 7 Hicks street.	Circular saw.	2½ "
George E. Briggs, Dartmouth street,	Lathe.	1½ "
Central Union store, 5 North Sixth st.	Grinding coffee.	1¼ "
C. S. & B. Cummings, 102 William st.	Grinding coffee.	2 "
Benjamin Dawson, Purchase and Hazard streets,	Elevator.	1½ "
Driscol, Church & Hall, Union and First streets,	Elevator.	3 "
David B. Folger, 140 Union street,	Grinding coffee.	1 "
Fred. S. Gifford, 186 Union street,	Grinding coffee.	1 "
Haskell & Tripp, William street,	Elevator.	3 "
N. P. Hayes, William street,	Elevator.	1 "
James A. Jay, 13 South Second street.	Clipping machine.	1 "
D. J. Kane & Bro., Union street,	Book Bindery.	2 "
Dr. E. V. McLeod, Purchase and William streets,	Dentist.	⅜ "
Moynan & Co., Union street,	Elevator.	3 "
New England Embroidery Co., Hall's court,	Sewing machine.	3 "
F. B. Nesbett, 160 Purchase street,	Dentist.	⅜ "
North Congregational church, Purchase and Elm streets,	Blowing organ.	3 "
W. L. Palmer, 30 Allen street,	Grinding coffee.	¾ "
Parker House, Purchase street,	Cash system.	¾ "
W. F. Potter & Co., Front and Union streets,	Grinding coffee.	1 "
I. C. Sherman, 76 Union street,	Elevator.	3 "
St. John Baptist church, Fifth street,	Blowing organ.	2 "
W. D. Swan, Front street,	Wood turning.	3 "
Taber, Read & Gardner, Acushnet av.	Sewing machine lathe.	1 "
George M. Thatcher, Rockland street.	Lathe.	1 "
Trinitarian church, Fourth street,	Blowing organ.	2 "
Unitarian church, Union & Eighth sts.	Blowing organ.	2 "
Dr. E. F. Ward, Union and Sixth sts.	Sewing machine.	⅜ "
Wordell Bros., William street,	Sausage cutting.	2 "

Number of motors in use, Dec. 1, 1889, . . 31.

TABLE M.

Watering-Cart Hydrants.

Acushnet avenue, west side, 4.5 feet north from north line So. Belleville road.
Acushnet avenue, west side, 13.5 feet north from north line No. Belleville road.
Acushnet avenue, west side, 11.9 feet south from south line Tarkiln Hill road.
Allen street, north side, 154 feet east of Page.
Bedford street, south side, 86 feet west of Fourth.
Campbell street, south side, 87 feet west of Purchase.
Cedar Grove street, south side, 18 feet west of Acushnet avenue.
Coffin avenue, south side, 16.5 feet west of Acushnet avenue.
Court street, north side, 15 feet east of Ash.
Dartmouth street, east side, 13 feet south of Oak.
First street, west side, 118 feet south of School.
First street, west side, 28 feet south of Grinnell.
Grinnell street, south side, 31 feet east of County.
Hawthorn street, south side, 17 feet east of Cottage.
Hawthorn street, head of Tremont.
Hazard street, south side, 21 feet west of Purchase.
Kempton street, south side, 72 feet west of County.
Kempton street, south side, 102 feet east of Newton.
Kempton street, south side, 16 feet east of Rockdale avenue.
Linden street, south side, 30 feet west of Purchase.
Locust street, south side, 25 feet west of County.
Madison street, south side, 17 feet east of Fourth.
Madison street, south side, 39 feet west of County.
Mill street, south side, 9 feet west of Purchase.
Middle Point road, south side, 58 feet east of French avenue.
Mt. Vernon street, south side, 14 feet west of Mt. Pleasant.
Pleasant street, east side, 9 feet north of Mechanics lane.
Reynolds street, west side, 8 feet north of Linden.
Robeson street, south side, 38 feet west of Cedar.
Smith street, south side, 53 feet east of Park.
Summer street, west side, 4 feet north of Hillman.
Sycamore street, south side, 77 feet west of County.
Thompson street, south side, 72 feet west of Warwick.
Union street, south side, 65 feet west of County.
Water street, west side, 6 feet south of Blackmer.
William street, south side, 27 feet east of Second.
Willis street, south side, 7½ feet east of Acushnet avenue.

Number now in use, 37.

TABLE N.

Location of Hydrants.

	Pressure in lbs.
Acushnet avenue, southwest corner of Tarkiln Hill road. Post.	55
Acushnet avenue, west side, south of Tarkiln Hill road 500 feet. Post.	54
Acushnet avenue, west side, south of Tarkiln Hill road 997 feet. Post.	53
Acushnet avenue, west side, north of No. Belleville road 600 feet. Post.	53
Acushnet avenue, west side, north of No. Belleville road 6 feet. Post.	54
Acushnet avenue, west side, south of No. Belleville road 601 feet. Post.	55
Acushnet avenue, west side, north of Shaw 610 feet. Post.	51
Acushnet avenue, northwest corner of Shaw. Post.	47
Acushnet avenue, west side, north of So. Belleville road 603½ feet. Post.	45
Acushnet avenue, west side, head of So. Belleville road. Post.	42
Acushnet avenue, northwest corner of Nash road. Post.	40
Acushnet avenue, northwest corner of Hathaway avenue. Post.	40
Acushnet avenue, northwest corner of Davis. Post.	41
Acushnet avenue, southwest corner of Phillips avenue. Post.	39
Acushnet avenue, southwest corner of Deane. Post.	48
Acushnet avenue, west side, north of Sawyer 574½ feet. Post.	53
Acushnet avenue, southwest corner of Coggeshall. Post.	56
Acushnet avenue, southwest corner of Cedar Grove. Post.	54
Acushnet avenue, west side, south of Logan 335 feet. Post.	60
Acushnet avenue, west side, north of Wamsutta 514 feet. Double.	62
Acushnet avenue, west side, north of Wamsutta 372 feet. Post.	60
Acushnet avenue, west side, south of Wamsutta 255 feet.	63
Acushnet avenue, west side, at end of Wall street. Post.	62
Acushnet avenue, southeast corner of Pope.	64
Acushnet avenue, northwest corner of Willis.	61
Acushnet avenue, west side, south of Campbell 179 feet.	59
Acushnet avenue, northwest corner of Maxfield.	57
Acushnet avenue, northwest corner of Kempton.	47

Acushnet avenue, northeast corner of Elm. 47
Acushnet avenue, northwest corner of School. Post. 51
Acushnet avenue, northwest corner of Madison. 55
Acushnet avenue, northwest corner of Russell. 58
Acushnet avenue, northwest corner of Bedford. 59
Acushnet avenue, west side, opposite Howland. 61
Acushnet avenue, northwest corner of Potomska. Post. 50
Acushnet avenue, west side, north of Rivet 158 feet. Post. . . 59
Acushnet avenue, southwest corner of Blackmer. 60
Allen street, southeast corner of Bonney. 46
Allen street, northwest corner of Ward. 41
Allen street, north side, east of Page 159 feet. 38
Arch street, southwest corner of Union. 24
Arnold street, south side, west of Orchard 96 feet. Post. 22
Arnold street, southwest corner of Chancery. 33
Arnold street, southeast corner of Atlantic. 32
Ash street, northwest corner of Middle. 27
Ash street, southwest corner of Morgan. Double. 25
Ash street, northwest corner of Arnold. 32
Ash street, northwest corner of Maple. 34
Ash street, northwest corner of Bedford. Post. 37
Ashland street, west side, head of Linden. 11
Atlantic street, west side, 186 feet south of Arnold. Post. . . . 29
Atlantic street, west side, 390 feet north of Arnold. Post. . . . 30
Austin street, southeast corner of State. Post. 42
Austin street, southwest corner of Purchase. Post. 56
Austin street, southeast corner of Cedar. Post. 19
Austin street, south side, on west line of Wilson. Post. . . . 20
Austin street, southwest corner of Ashland. Post. 15
Austin street, southeast corner of Shawmut avenue. Post. . . . 14
Bedford street, southwest corner of Fifth. Post. 55
Bedford street, southeast corner of County. 47
Bedford street, southeast corner of Orchard. 37
Beach street, northwest corner of Kempton. Post. 18
Blackmer street, south side, east of Front 575 feet. Post. . . 63
Bolton road, west side, south of Rivet 1027 feet. Post. 59
Bolton road, northwest corner Poplar road. Post. 59

Bonney street, northwest corner of Grinnell. 51
Bonney street, northwest corner of Rockland. Post. 54
Borden street, southwest corner of Bay. Post. 42
Bowditch street, southwest corner of Weld. Post. 56
Bowditch street, west side, 313 feet south of Cedar Grove. Post. . 55
Bowditch street, west side, north of Cedar Grove 244 feet. Post. . 55
Bridge avenue, north side, 44 feet west of draw. 62
Bridge avenue, south side, 11 feet west of draw. 62
Brownell street, west side, north of Union 74 feet. Post. 24
Campbell street, south side, east of County 163 feet. 28
Campbell street, southwest corner of Cypress. Post. 19
Campbell street, south side, east of Emerson 205 feet. 18
Cannon street, south side, east of Second 164 feet. 64
Cedar street, northwest corner of Elm. Double. 25
Cedar street, southwest corner of Kempton. 26
Cedar street, west side, north of Mill 75 feet. 23
Cedar street, southwest corner of Hillman. 23
Cedar street, northwest corner of Sycamore. 21
Cedar street, southwest corner of Campbell. 18
Cedar street, southwest corner of Parker. 19
Cedar Grove street, southeast corner of Front. Post. 60
Cedar Grove street, southeast corner of Howard. Post. 58
Cedar Grove street, south side, 383 feet west of Bowditch. Post. . 57
Cedar Grove street, northwest corner of Purchase. Post. . . . 56
Cedar Grove street, northwest corner of County. Post. 43
Centre street, south side, east of Water 85 feet. 56
Chancery street, west side, north of Arnold 406 feet. Post. . . . 33
Chancery street, southwest corner of Elm. Post. 28
Chancery street, southwest corner of Hillman. 29
Chancery street, west side, south of Parker 176 feet. Post. 24
Chancery street, west side, 263 feet north of Parker. Post. . . . 16
Cherry street, southeast corner of Seventh. 38
Chestnut street, southwest corner of North. 19
Chestnut street, west side, north of Campbell 96 feet. 22
Clark street, southwest corner of State. 47
Clark street, south side, 170 feet west of County. Post. 40
Clinton street, south side, east of Orchard 125 feet. 26

Clinton street, south side, west of Ash 242½ feet. Post. 44
Coffin avenue, southwest corner of North Purchase. Post. 40
Coffin avenue, south side, opposite Oneko lane. Post. 40
Coffin avenue, southeast corner of Bowditch. Post. 40
Coffin avenue, south side, 347 feet east of Acushnet avenue. Post. 50
Coffin street, north side, 262 feet east of Water. Post. 62
Coggeshall street, south side, 75 feet west of Rock. Post. . . 63
Coggeshall street, southwest corner Front. Post. 61
Coggeshall street, southwest corner Purchase. Post. 53
Coggeshall street, southeast corner of County. Post. 43
Commercial street, north side, east of Front 82 feet. Post. . . . 62
Cottage road, south side, 435 feet west of Bolton road. Post. . . . 55
Cottage street, southwest corner of Bay. Post. 43
Cottage street, northwest corner of Allen. 42
Cottage street, northwest corner of Bedford. 37
Cottage street, northwest corner of Hawthorn. 31
Cottage street, southwest corner of Arnold. 23
Cottage street, southwest corner of Union. 22
Cottage street, southwest corner of Kempton. Post. 22
Cottage street, northwest corner of Hillman. 20
Cottage street, northwest corner of Sycamore. 20
Cottage street, west side, 237 feet north of Locust. Post. 20
County street, west side, 200 feet north of Coggeshall. Post. . . 44
County street, southeast corner Penniman. Post. 44
County street, west side, 234½ feet south of Clark. Post. 43
County street, west side, 115 feet south of Weld. Post. . . . 42
County street, southwest corner of Austin. Post. 33
County street, northwest corner of Locust. Post. 24
County street, northwest corner of Parker. 23
County street, southwest corner of Smith. Post. 30
County street, southwest corner of Maxfield. 25
County street, southwest corner of North. 21
County street, southwest corner of Middle. Double. 22
County street, southwest corner of Morgan. Post. 22
County street, northwest corner of Union. 24
County street, west side, head of School. 27
County street, northwest corner of Madison. 32

County street, southwest corner of Hawthorn. 36
County street, northwest corner of Allen. 49
County street, southwest corner of Grinnell. 60
County street, west side, head of South. 60
County street, northwest corner of Rockland. 61
County street, southwest corner of Thompson. Post. 58
County street, northwest corner of Rivet. Post. 57
County street, northwest corner of Winsor. Post. 57
County street, west side, 71 feet north of Division. Post. 54
County street, northwest corner of Cove road. Post. 62
Court street, southwest corner of Orchard. 22
Court street, south side, opposite Cedar. 23
Court street, northeast corner of Ash. Post. 20
Court street, south side, opposite Emerson. 26
Court street, south side, west from Park street 304 feet. 32
Court street, south side, head of Jenney. Post. 23
Court street, south side, east of Reed 300 feet. Post. 22
Cove street, south side, east of Water 487 feet. 62
Cove street, south side, west of Water 334½ feet. Post. 60
Cove street, southeast corner of County. Post. 72
Crapo street, west side, south of Washington 343 feet. 60
Crapo street, west side, south of Rockland 225 feet. 63
Crapo street, west side, 160 feet south of Thompson. Post. . . . 58
Dartmouth street, east side, southwest of Orchard 110 feet. . . . 47
Dartmouth street, east side, 125 feet south of Hickory. Post. . . . 47
Dartmouth street, east side, 260 feet south of Rockland. Post. . . 45
Dartmouth street, east side, 99 feet south of Thompson. Post. . . 44
Dartmouth street, southeast corner Larch. Post. 42
Delano street, southwest corner of Water. Post. 57
Delano street, southeast corner of Acushnet avenue. Post. 57
Division street, southeast corner of Second. Post. 61
Division street, south side, 527 feet west of County. Post. 62
Division street, south side, east of Crapo 6 feet. Post. 58
Durfee street, southwest corner of Cedar. Post. 15
Durfee street, southwest corner of Bullock avenue. Post. 17
Durfee street, southwest corner of Shawmut avenue. Post. 12
Elm street, southwest corner of Pleasant. 38

Elm street, southwest corner of Summer. 18
Elm street, south side, 43.5 feet west of Florence. Post. 26
Elm street, southeast corner of Reed. Post. . . . 20
Emerson street, southwest corner of Willis. 19
Emerson street, southwest corner of Parker. 18
Fifth street, southwest corner of School. Post. 45
Fifth street, west side, south of Madison 245 feet. 50
Fifth street, northwest corner of Wing. Post. 59
Fifth street, northwest corner of Grinnell. 61
First street, southwest corner of Spring. 58
First street, west side, south of School 109 feet. 57
First street, west side, south of Howland 185 feet. 65
First street, west side, south of South 255 feet. 63
Florence street, west side, north of North 180 feet. Post. . . 26
Florence street, northwest corner of Mill. Post. 24
Florence street, west side, south of Kempton 126 feet. Post. . . 23
Florence street, southwest corner of Morgan. Post. 29
Forest street, south side, west of County 90 feet. 53
Foster street, southwest corner of Maxfield. 37
Foster street, northwest corner of High. 33
Fourth street, west side, north of School 106 feet. 46
Fourth street, west side, south of Madison 210 feet. 54
Fourth street, east side, opposite Washington. Post. 57
Fourth street, northwest corner of Rockland. 62
Fourth street, west side, south of Potomska 61 feet. Post. . . 58
Franklin street, southwest corner of Pleasant. 43
Franklin street, southwest corner of State. Post. 38
French avenue, west side, south of Cove road 14 feet. 60
Front street, west side, south of Washburn 319 feet. 62
Front street, west side, south of Logan 383 feet. Post. 63
Front street, southeast corner of Wamsutta. Post. 65
Front street, southwest corner of Hazard's lane. 61
Front street, southwest corner of Centre. 61
Front street, west side, south of Commercial 86 feet. 63
Front street, northwest corner of lane head of Merrill's wharf. 65
Front street, west side, south of Howland 268 feet. Post. . . . 61
Front street, southwest corner of Grinnell. Post. 62

Front street, west side, south of South 330 feet. Post. 62
Front street, west side, north of Delano 191 feet. Post. . . . 62
Fruit street, south side, east of Hemlock 126.5 feet. Post. . . . 53
Gifford street, south side, 700 feet east of Water. Post. 66
Gifford street, south side, 274 feet east of Water. Post. 65
Grape street, south side, west of Lewis 131 feet. Post. 36
Grape street, south side, west of Lewis 517½ feet. Post. . . . 34
Griffin street, southwest corner of Second. 62
Grinnell street, south side, west of Acushnet avenue 76 feet. . . . 60
Grinnell street, south side, east of Crapo 103 feet. 58
Grinnell street, southwest corner of Orchard. Post. 50
Grove street, southwest corner of Anthony. 32
Harmony street, southwest corner Social. Post. 59
Harrison street, southwest corner of Hickory. Post. 48
Hawthorn street, southeast corner of Page. 28
Hawthorn street, south side, east of Tremont 147 feet. Post. . . 28
Hawthorn street, southwest corner of Brigham. Post. 26
Hawthorn street, south side, 301 feet west of Brigham. Post. . . 24
Hazard street, south side, west of State 140 feet. 36
Hazard street, southwest corner of Pleasant. 46
Hicks street, south side, east of Acushnet avenue 276 feet. Post. . 56
High street, south side, east of Acushnet avenue 43 feet. 48
High street, south side, east of County 177 feet. 23
Hillman street, southwest corner of Second. 57
Hillman street, southeast corner of Hill. 32
Howland street, northeast corner of Second. 63
Irving court, north end of court. 25
James street, west side, south of Union 102½ feet. Post. 28
Katherine street, south side, 212½ feet east of Crapo. Post. . . . 61
Kempton street, southwest corner of Pleasant. Post. 36
Kempton street, south side, opposite Hill. 28
Kempton street, southwest corner of Summer. 19
Kempton street, southwest corner of Emerson. 26
Kempton street, southwest corner of Park. 28
Kempton street, southwest corner of Liberty. 29
Kempton street, southeast corner of Jenney. 26
Kempton street, south side, west of Hunter 50 feet. Post. 21

Kempton street, southwest corner of Francis. Post. 14
Kilburn street, north side, east of Front 244 feet. Post. 62
Kilburn street, north side, east of Front 581 feet. Post. 64
Liberty street, west side, south of Kempton 339 feet. 30
Lincoln street, west side, south of Union 171 feet. 23
Linden street, south side, west of State 13½ feet. Post. 43
Linden street, south side, west of County 169 feet. Post. 34
Linden street, south side, 67½ feet west of Reynolds. Post. 24
Linden street, south side, 6½ feet east of Ashland. Post. 14
Lindsey street, west side, 173 feet south of Kempton. Post. . . 27
Lindsey street, northwest corner of Morgan. Post. 24
Locust street, southwest corner of Chestnut. Post. 23
Locust street, southeast corner of Richmond. Post. 15
Logan street, southwest corner of North Front. 65
Logan street, south side, east of Acushnet avenue 400 feet. . . . 62
Logan street, southwest corner of Acushnet avenue. 63
Lombard street, west side, 209½ feet south of Rockland. Post. . . 50
Madison street, southwest corner of First. 61
Madison street, southwest corner Sixth. Post. 41
Maitland street, south side, west of Cedar 305 feet. Post. 14
Maxfield street, southwest corner of Second. Post. 58
Maxfield street, southwest corner of Pleasant. Post. 38
Maxfield street, southeast corner of Chestnut. 19
Maxfield street, southeast corner of Spruce. 21
Maxfield street, southwest corner of Ash. Post. 22
Mechanics lane, north side, east of Eighth street 206 feet. . . . 30
Merrimac street, southwest corner of State. Post. 41
Middle street, southeast corner of Second. 54
Middle street, southeast corner of Sixth. Double. 36
Middle street, south side, east of Cedar 371 feet. 32
Middle street, southeast corner of Chancery. 29
Mill street, south side, west of Hill 191 feet. 25
Mill street, south side, west of Ash 45 feet. 25
Morgan street, southwest corner of Cottage. 33
Mosher street, south side, west of County 517 feet. Post. 59
Mt. Pleasant street, southeast corner of distributing reservoir. . . 4
Mt. Pleasant street, west side, north of Durfee 572 feet. 8

Mt. Pleasant street, northwest corner of Durfee. Post. 12
Mt. Vernon street, south side, 359 feet west of Mt. Pleasant. . . . 6
Newton street, northwest corner of Elm. Post. 29
North street, southeast corner of Second. Post. 54
North street, southeast corner of Acushnet avenue. 50
North street, northwest corner of Pleasant. Post. 35
North street, southwest corner of Foster. 35
North street, southwest corner of Park. Post. 29
North street, southeast corner of Newton. Post. 32
North street, southwest corner of Hunter. Post. 22
Oak street, southwest corner of Harrison. Post. 45
Ocean street, west side, 184½ feet south of Arnold. Post. 32
Old Point road, west side, east of French avenue 650 feet. 53
Orchard street, west side, head of Madison. 27
Page street, west side, 429½ feet south of Hawthorn. Post. 36
Park place, south side, west of Sixth 306 feet. 32
Park street, west side, south of Kempton 339 feet. Post. 27
Park street, northwest corner of Court. Post. 28
Park street, west side, north of Arnold 263 feet. Post. 34
Parker street, south side Oak Grove Cemetery. Post. 25
Parker street, southwest corner of Summer. 27
Pearl street, southwest corner of Pleasant. Post. 41
Pine street, northwest corner of Cross. 65
Pleasant street, southwest corner of Market. 37
Pleasant street, west side, north of William 21½ feet. Post. . . . 40
Pleasant street, east side, foot of Sycamore. Post. 39
Pleasant street, northwest corner of Pope. 42
Pleasant street, northwest corner of Austin. 47
Pleasant street, southwest corner of Linden. 48
Pleasant street, southwest corner of Weld. Post. 48
Pope street, south side, opposite North Oak. 32
Poplar road, south side, 431 feet west of Bolton road. Post. . . . 52
Potomska street, A group of three post hydrants located about 300 feet east of Prospect and 91 feet north of south line of Potomska street. 64
Prospect street, west side, south of Howland 157 feet. 64
Prospect street, northwest corner of Grinnell. Post. 63

Prospect street, west side, north of Potomska 324½ feet. Post. . . 62
Prospect street, northwest corner of Potomska. Post. 63
Purchase street, northwest corner of Deane. Post. 43
Purchase street, west side, opposite Oneko Mill. Post. 48
Purchase street, east side, opposite Clark. Post. 58
Purchase street, west side, opposite Logan. 58
Purchase street, northwest corner of Merrimac. Double. 51
Purchase street, northwest corner of Pope. 52
Purchase street, southwest corner of Pearl. Double. 52
Purchase street, southwest corner of Campbell. 47
Purchase street, west side, north of Maxfield 343 feet. Double. . . 46
Purchase street, southwest corner of Hillman. Double. 43
Purchase street, southwest corner of Mill. 42
Purchase street, northwest corner of Middle. 40
Purchase street, west side, at Central engine house. Post. 40
Purchase street, northwest corner of Union. 43
Reynolds street, southwest corner of Weld. Post. 26
Reynolds street, west side, 268 feet north of Weld. Post. 29
Rivet street, southwest corner of Second. 62
Rivet street, southwest corner of Bonney. Post. 59
Rivet street, southwest corner of Hemlock. Post. 51
Rivet street, southeast corner of Bolton road. Post. 56
Robeson street, southwest corner of County. Post. 26
Robeson street, southwest corner of Ashland. Post. 15
Robeson street, southeast corner of Cedar. Post. 21
Robeson street, south side, 351 feet west of Cedar. Post. 17
Rock street, southwest corner of Washburn. Post. 61
Rockland street, southeast corner of Hall. Post. 56
Rockland street, south side, 13 feet west of Orchard. Post. . . . 54
Rockland street, southwest corner of Lombard. Post. 50
Rounds street, northwest corner of Elm. Post. 22
Russell street, south side, east of Fifth 92 feet. 54
Russell street, southwest corner Sixth. Post. 47
Sawyer street, southwest corner of Bowditch. Post. 53
Sawyer street, southwest corner of Acushnet avenue. Post. . . . 59
Sawyer street, southeast corner Rock. Post. 65
Sawyer street, north side, 717 feet east of Rock. Post. 65

School street, southwest corner Sixth. Post. 37
Second street, northwest corner of Mill. 55
Second street, west side, south of Elm 52 feet. Post. 52
Second street, west side, south of Spring 74 feet. 55
Second street, northwest corner of Coffin. 61
Second street, west side, at head of Morgan's lane. Post. 60
Second street, west side, north of Grinnell 61 feet. 63
Second street, west side, north of Potomska 232 feet. Post. . . . 61
Second street, west side, south of Potomska 122 feet. Post. . . . 63
Second street, west side, 188 feet south of Blackmer. Post 59
Seventh street, southwest corner of Union. Post. 31
Seventh street, west side, north of Madison 50 feet. 36
Shawmut avenue, west side, head of Locust. Post. 17
Sherman street, south side, west of County 314 feet. 51
Sisson street, west side, south of Court 120 feet. Post. 23
Sixth street, northwest corner of Wing. 56
Sixth street, west side, north of Grinnell 194 feet. 59
Smith street, southwest corner of Chestnut. Double. 22
Smith street, southeast corner of Spruce. Double. 20
Smith street, southeast corner of Emerson. 22
Smith street, south side, east of Park 5 feet. Post. 29
South street, southwest corner of Acushnet avenue. 62
South street, southwest corner of Second. 62
South street, southwest corner Water. Post. 63
South street, southwest corner of Prospect. 64
South Beach road, southwest corner of Bolton road. Post. 57
South Beach road, south side, 327 feet west of Bolton road. Post. 54
Spring street, southeast corner of Acushnet avenue. Post. 51
Spring street, southwest corner of Seventh. 32
Spring street, southeast corner of Fifth. 42
State street, northwest corner of Sycamore. 35
State street, southwest corner of Pearl. 34
Summer street, northwest corner of North. 16
Summer street, northwest corner of Hillman. 16
Summer street, southwest corner of Willis. 26
Sycamore street, southwest corner of Thomas. 30
Sycamore street, southwest corner of Summer. 24

Sycamore street, south side, west of Ash 68 feet. 22
Taber's wharf, south side, north of Union 36 feet. 63
Thomas street, northwest corner of Hillman. 24
Thompson street, south side, 20 feet east of Hall. Post. 58
Tremont street, southwest corner of Union. Post. 26
Tremont street, northwest corner Maple. Post. 29
Union street, southwest corner of Water. Double. 57
Union street, southeast corner of Second. 52
Union street, southwest corner of Acushnet avenue. Double. . . 48
Union street, southwest corner of Sixth. Post. 38
Union street, southeast corner of Emerson. Post. 28
Union street, south side, 344 feet west of Park. Post. 28
Walden street, southwest corner of Maxfield. 31
Wall street, south side, east of Acushnet avenue 165 feet. 62
Walnut street, northwest corner of Front. Post. 61
Walnut street, southwest corner of Second. 57
Walnut street, southeast corner of Fourth. Double. 51
Walnut street, southwest corner of Seventh. Post. 38
Wamsutta street, south side, west of Front 200 feet. Post. . . . 65
Wamsutta street, south side, west of Front 372 feet. Post. 65
Wamsutta street, south side, east of Acushnet ave. 285 ft. Double. 64
Ward street, west side, 62 feet south of Bay. Post. 46
Washburn street, southeast corner of Acushnet avenue. . . . 59
Washburn street, south side, west of North Front 228 feet. . . 59
Washington street, southeast corner of Crapo. 58
Washington street, south side, west of Orchard 102 feet. 50
Washington street, southeast corner of Dartmouth. 46
Water street, southwest corner of Hillman. 65
Water street, southwest corner of North. Post. 64
Water street, west side, south of North 258 feet. 63
Water street, northwest corner of Middle. Double. 62
Water street, southwest corner of Elm. 60
Water street, west side, north of Centre 46 feet. 50
Water street, west side, north of School 22 feet. 60
Water street, northwest corner of Walnut. 61
Water street, northeast corner of City wharf. 62
Water street, northwest corner of Coffin. 64

Water street, west side, head of Pine. Post. 67
Water street, west side, head of Leonard. Double. 63
Water street, northwest corner of Howland. 64
Water street, northwest corner of Grinnell. 63
Water street, northwest corner of Potomska. Post. 63
Water street, west side, 266 feet south of Potomska. Post. . 63
Water street, northwest corner of Rivet. Post. 63
Water street, southwest corner of Blackmer. Post. 63
Water street, northwest corner Delano. Post. 62
Water street, west side, head of Gifford. Post. 62
Water street, west side, south of Division 285 feet. 62
Water street, southwest corner of Cove. 61
Weld street, southwest corner of State. Post. 43
William street, southwest corner of Bethel. 51
William street, southeast corner of Acushnet avenue. 47
William street, southwest corner of Sixth. Post. 38
William street, southwest corner of Eighth. 26
Willis street, southeast corner of Pleasant. Post. 41
Willis street, southwest corner of State. 32
Willis street, south side, 65 feet east of Reed's court. Post. . . 27
Willis street, southwest corner of Cottage. Post. 19
Willis street, south side, west of Cedar 200 feet. 18
Wing street, southwest corner of Fourth. 57
Winsor street, south side, west of County 455½ feet. Post. . . . 58
Winsor street, south side, 77½ feet east of Crapo. Post. 60

Number of flush hydrants, ... 242
Number of post hydrants, ... 218

Total number of hydrants, ... 460

Summary of Statistics.

REPORT OF 1889.

IN ACCORDANCE WITH SUGGESTIONS ADOPTED BY THE

NEW ENGLAND WATER WORKS ASSOCIATION.

NEW BEDFORD WATER WORKS, BRISTOL CO., MASS.

Population by census of 1885,

33,393

Date of construction,

1866 to 1869, inclusive.

By whom owned,

The property of the city of New Bedford.

Source of supply,

From a storing reservoir artificially formed by constructing a dam across the valley of the Acushnet river, seven miles north of the centre of the city.

Mode of supply,

By gravitation into the city, thence pumped into a distributing reservoir on an elevated site.

PUMPING.

1. Builders of pumping machinery,

a. McAlpine engine, built by Quintard Iron Works.

b. Worthington engine, built by Henry R. Worthington.

c. High duty Worthington engine, built by Henry R. Worthington.

2. Description of coal used,

First Contract.

a. Anthracite.
b. Not applicable.
c. Size, egg.
d. Brand, "Old Company's" Lehigh.
e. Price per gross ton delivered, $5.89.
f. Percentage of ash, $10\frac{2}{10}$.
g. Wood, price per cord, $4.00.

Second Contract.

a. Anthracite.
b. Not applicable.
c. Size, egg.
d. Brand, "Old Company's" Lehigh.
e. Price per gross ton delivered, $5.44.
f. Percentage of ash, $9\frac{6}{10}$.
g. Wood, price per cord, $4.00.

	McAlpine.	Worthington.	High Duty Worthington.
3. Coal consumed for the year, in pounds,	736,914	154,700	1,138,515
4. $\frac{\text{Lbs. of wood consumed in pounds,}}{3}$ = coal	367	0	300
5. Total fuel consumed for the year, (3) + (4),	737,281	154,700	1,138,815
6. Total pumpage for the year, in gallons,	446,583,568	74,535,760	777,506,410
7. Av. static head against which pumps work,	125.7	124.9	125.3
8. Av. dynamic head against which pumps work,	135.0	126.2	127.6
9. *a.* Number of gallons pumped per pound of coal (3),	606	482	683

b. Number of gallons raised 100 feet per pound of coal for total coal (3),	818	607	871
10. Duty, in foot lbs. per 100 pounds of coal, using following formula, making no deductions for starting, banking fires, heating building, or anything else :	68,202,718	50,709,050	72,689,510

$$\text{Duty} = \frac{\text{Gallons pumped (6) x 834 (lbs.) x 100 x dynamic head (80)}}{\text{Total fuel consumed (5)}}$$

Cost of Pumping Figured on Pumping Station Expenses, viz.: $10,638.77.

11. Per million gallons raised against average dynamic head (8) into reservoir, $8.04

12. Per million gallons raised one foot high (dynamic), .0618 cents.

Cost of Pumping Figured on Total Maintenance (see Financial CC.), viz.: $73,491.50.

13. Per million gallons raised against average dynamic head (8) into reservoir, $56.59

14. Per million gallons raised one foot high (dynamic), $.43\frac{512}{1000}$ cents.

FINANCIAL.

MAINTENANCE.

RECEIPTS.		EXPENDITURES.	
From consumers:			
A. Water rates, domestic,	$49,226.75	AA. Management and repairs,	$27,091.50
B. Water rates, manufacturing,	6,519.14	BB. Interest on bonds,	46,400.00
C. Net receipts from water,	$55.745.89	CC. Total maintenance for year,	$73,491.50
D. Miscellaneous (rents, repairs, etc.,)	273.50	Bonds paid,	30,000.00
E. Total,	$56,019.39	DD. Balance to construction,	40,927.89
From public funds:			
J. General appropriation, water,	12,000.00		
General appropriation, debt,	76,400.00		
K. Gross receipts from all sources,	$144,419.39	KK. Total,	$144,419.39

CONSTRUCTION.

RECEIPTS.			EXPENDITURES.		
R.	Balance from previous year, $22,625.49		FF. Extension, mains,		$30,000.46
	Balance from maintenance, 40,929.89	$63,553.38	GG. Extension, services,		
S.	Bonds issued,	00.00	*a.* Services,	$7,324.65	
U.	Other sources (service private lines, meters, etc.,)	12,751.94	*b.* Fountains, meters,	2,639.89	9,964 54
			HH. Special extensions,		00.00
			II. Total construction for year,		1,377.53
V.	Total,	$76,305.32	JJ. Balance,		34,962.79
			KK. Total,		$76,305.32

W. Net cost of works to this date, ...	$1,396,663.47
X. Bonded debt at this date, $650,000, trust fund $100,000 =	750,000.00
Y. Sinking fund, ...	1,265.44
Z. Average rate of interest, ...	$5\frac{72}{100}$ per cent.

CONSUMPTION.

1. Estimated total population at date,
   40,000
2. Estimated population on lines of pipe at date,
   36,500
3. Estimated population supplied at date,
   34,000
4. Total number gallons consumed for year,
   1,297,541,257
5. Passed through domestic meters,
   8,190,944 gallons, or $0\frac{63}{100}$ per cent.
6. Passed through manufacturing meters,
   259,690,821 gallons, or 20 per cent.
7. Average daily consumption, in gallons,
   3,554,908
8. Gallons per day to each inhabitant (1),
   89
9. Gallons per day to each consumer (3),
   105
10. Gallons per day to each tap (distribution 22),
    582

DISTRIBUTION.

MAINS.

1. Kind of pipe used,
   Wrought iron cement-lined, and cast iron.
2. Size,
   From 4 to 30 inches.
3. Extended,
   15,865
4. Discontinued,
   6049
5. Total now in use,
   $61\frac{1061}{10000}$ miles.
6. Cost of repairs per mile,
   $20.00
7. Number of leaks for the year,
   10
8. Small distribution pipes, less than 4 inches, total length,
   5872 feet.
9. *a.* Fire hydrants added,
   15

b. Watering-cart connections added, 0

10. *a.* Number of fire hydrants now in use, 460

b. Number watering cart hydrants now in use, 37

11. Stop gates added, 28

12. Number now in use, 643

13. Small stop-gates, less than 4 inches, total, 62

14. Number of blow-off gates, 65

15. Range of pressure at centre for day and night, 30 to 36 lbs.

SERVICES.

16. Kind of pipe used, Lead and cast iron.

17. Size, From ½ to 8 inches.

18. Extended, 16,346

19. Discontinued, 1

20. Total now in use, $37\frac{3}{10}$ miles.

21. Service taps added, 320

22. Number now in use, 6104

23. Average length of service, 51.1

24. Average cost of service, Gross, $22.89
Net, 12.76

25. Meters added, 16

26. Number now in use, *a.* Domestic, 68
b. Manufacturing, 52

27. Motors and elevators added, 4

28. Number now in use, 31

In Board of Aldermen,
January 30th, 1890.

Received, and ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
January 30th, 1890.

Concurred.

WM. A. MACKIE,
Clerk.

1890 — CITY DOCUMENT No. 4.

Thirty-Eighth Annual Report

OF THE

TRUSTEES

OF THE

FREE PUBLIC LIBRARY

OF THE

CITY OF NEW BEDFORD,

MASS.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS.
1890.

Officers of the Free Public Library

FOR THE YEAR 1890.

TRUSTEES.

Ex-Officio. Terms expire January, 1891.

WALTER CLIFFORD, Mayor of the City.
WILLIAM A. TUCKER, President of the Common Council.
LUTHER G. HEWINS, JR., Chairman of the Committee of the City Council on Public Instruction.

Elected by the City Council.

GEORGE H. DUNBAR,	Term expires April, 1890.
GEORGE HOWLAND, JR.,	Term expires April, 1890.
ISAAC B. TOMPKINS, JR.,	Term expires April, 1891.
MATTHEW C. JULIEN,	Term expires April, 1891.
LEONARD B. ELLIS,	Term expires April, 1892.
ARTHUR G. GRINNELL,	Term expires April, 1892.

PRESIDENT OF THE BOARD.
THE MAYOR.

CLERK.
GEORGE H. DUNBAR.

COMMITTEES.

On the Library—The Mayor, Messrs. Howland, Tucker, and Julien.
On the Building—Messrs. Tompkins, Hewins, and Ellis.
On Binding and Blanks—Messrs. Dunbar and Grinnell.

SUPERINTENDENT OF THE LIBRARY.
GEORGE H. DUNBAR.

LIBRARIAN.
ROBERT C. INGRAHAM.

ASSISTANT LIBRARIAN.
WILLIAM L. R. GIFFORD.

ASSISTANTS.
JOSEPHINE A. MERRICK, M. E. BROWN,
SUSIE H. GAMMONS.

JANITOR.
YORICK W. AMES.

REPORT.

To the City Council of the City of New Bedford:

Gentlemen, — In accordance with our usual custom, we submit our annual statistical report, with explanatory comments and such suggestions as our increasing needs make necessary.

Our city is increasing rapidly in population; and we note with pleasure a corresponding addition in the number of people who frequent the library. This indicates an appreciation of privileges which help make better citizens, and which place refining influences within the reach of all. We sincerely hope for your coöperation in extending the scope of the benefits conferred on us by liberal-spirited citizens, and which enable us to enjoy many luxuries denied other cities of our size and wealth. These gifts have made the expenses of the library financially easy for the tax-payers and have accomplished an amount of good that must be plainly apparent.

Our income from the trust funds has been used during the past year not only in the purchase of the customary books of the day, but also, to a greater extent than formerly, in procuring some valuable art works. The unrestricted bequest of the late George O. Crocker has enabled us to make many improvements which add to the comfort and convenience of the patrons of the library.

Our most important need at present is the exchange of the arc lights in the old part of the library for incandescent lights, such as are already in use in the other rooms.

The committee on city property will doubtless attend to this matter early in the year.

At the earnest solicitation of the trustees, our librarian, Robert C. Ingraham, left his post of duty last spring for about four months. Our motives were twofold: first, that his health, which was seriously impaired, might be improved; and secondly, that we might profit by that improvement in retaining for many years the invaluable services of a man who has become almost a part of the library. Mr. Ingraham returned greatly benefited by his journey, — a result most gratifying to us.

During 1889, four hundred eighty-two (482) volumes were worn out and rejected. Nearly all of these were fiction; and some of them were extra copies which did not have to be replaced. Two hundred eighty (280) volumes have been bound, and three hundred seventy-seven (377) rebound. Ninety-four (94) notices have been sent for books overdue. There has been an increase in the circulation of books of about six thousand four hundred (6400) over that for 1888. During the past year, seventy-five thousand three hundred twenty-five (75,325) volumes were taken from the library, making the average circulation about two hundred fifty (250) daily. One thousand sixty-two (1062) new names have been added to our list of takers of books. There has also been an increased use of books in the library rooms, but of this no record is kept.

We purchased in 1889 two thousand four hundred thirty-four (2434) books and pamphlets. No systematic enumeration of the books in the library has been made for several years, and so the number cannot be accurately stated. It is probably, however, slightly in excess of fifty-five thousand (55,000). There are sixteen newspapers on file in the reading room, and a few additions have been made to our list of periodicals.

Since our last report, there have been presented to the library four hundred forty-nine (449) volumes; eight hundred eighteen (818) pamphlets; a valuable map of New Bedford in 1815; and a photograph of a small sketch-map of New Bedford and vicinity, drawn by Ezra Stiles in 1762 These maps have been framed and now hang in the reading room. A list of those who have made gifts to the library will be found in the appendix.

APPENDIX.

FINANCIAL STATEMENT CONCERNING THE FREE PUBLIC LIBRARY FOR 1889.

STATEMENT OF THE LIBRARIAN.

1889.			
Jan. 1.	Cash on hand,	$69.78	
	Paper stock,	4.29	
	54 fiction catalogues,	13.50	
	Fines,	152.22	
	Book lost and paid for,	3.00	$242.79
	Paid for expressage, freight, and jobbing,	$38.31	
	P. O. box and postage,	36.38	
	Books,	5.15	
	Binding and paper cutting,	13.35	
	Stationery,	37.09	
	Furniture,	7.36	
	Incidentals,	71.92	
1890, Jan. 1.	Balance in hands of librarian,	33.23	$242.79

FREE PUBLIC LIBRARY ACCOUNT.

1889, Jan. 1.	Bills approved January,	$445.00	
	February,	470.14	
	March,	511.94	
	April,	476.94	
	May,	475.70	
	June,	486.37	
	July,	474.09	
	August,	487.60	
	September,	458.50	
	October,	499.24	
	November,	446.90	
	December,	491.94	$5,724.36
1889, Jan. 1.	Annual appropriation,	$5,500.00	
	Transfer,	224.36	$5,724.36

TRUST FUND ACCOUNT.

1889.			
Jan. 1.	Sylvia Ann Howland fund,	$8,194.45	
	George Howland, Jr., fund,	92.53	
	Charles W. Morgan fund,	246.14	
	Oliver Crocker fund,	292.90	
	James B. Congdon fund,	320.37	
	George O. Crocker fund,	225.54	
	Dog fund,	570.07	$9,942.00

SYLVIA ANN HOWLAND FREE PUBLIC LIBRARY FUND.

1889.			
Jan. 1.	Unexpended balance of income,	$8,194.45	
July 1.	Six months' interest,	1,500.00	
Dec. 31.	Six months' interest,	1,500.00	
	Amount returned,	2.00	$11,196.45

Bills approved for books, periodicals, and binding, viz.:

January audit,	$366.84	
February,	227.10	
March,	398.82	
April,	408.39	
May,	226.87	
June,	451.82	
July,	433.07	
August,	317.59	
September,	345.76	
October,	510.03	
November,	754.42	
December,	679.90	$5,120.61

The detailed statement of the expenditures from the income of this fund is as follows:

Academy of Natural Sciences,	$5.00
Allyn & Bacon,	2.93
American Chemical Journal,	4.00
American Journal of Mathematics,	5.00
American Journal of Philology,	3.00
American Publishing Co.,	5.00
Anthony, E. & Sons,	6.00
Appleton, D. & Co.,	23.40
Austin, J. O.,	5.00
Balch Bros.,	5.50

Bancroft-Whitney Co.,	$28.00
Boon, E. P.,	5.00
Bryant, H. W.,	8.00
Caspar, C. N.,	8.30
Chadbourne, S. H.,	2.91
City Treasurer,	139.80
Clark, A. S.,	6.51
Clarke, W. B. & Co.,	1.40
Coöperative Newspaper Co.,	2.50
Cushing, Wm.,	30.00
Cullen, J. B. & Co.,	3.00
Dews, Edwin,	321.06
Egypt Exploration Fund,	5.00
Electrical World,	3.00
Elliot, A. M.,	8.00
Ellis, G. H.,	2.00
Francis, D. G.,	13.32
Greenough, W. A. & Co.,	2.00
Harper, F. P.,	15.80
Henry Bill Pub. Co.,	6.50
Hickcox, J. H.,	5.00
Houghton, Mifflin & Co.,	5.00
Hutchinson, H. S. & Co.,	851.86
Inman, H. S.,	16.00
Kane, D. J. & Bro.,	95.35
Lawrence, L. L.,	10.24
Lawton, J. M., Jr.,	27.08
Lee, L. A.,	1.50
Lend-a-Hand Pub. Co.,	2.00
Little, Brown & Co.,	1,466.68
Littlefield, G. E.,	251.79
Luzerne Legal Register,	7.79
Macdonald, Wm. & Co.,	8.75
Maine Historical Register,	3.00
Mass. Historical Society,	6.00
McDonough, Jos.,	19.93
Mercury Pub. Co.,	6.00
Munsell's Sons,	5.00
Narragansett Histor. Pub. Co.,	2.00
Nash, E. W.,	10.00
Nash, H. C.,	6.00
National Pub. and Printing Co.,	1.55
New England Magazine Co.,	3.75
New England Pub. Co.,	2.50
Noyes, H. D. & Co.,	24.30

Peet, S. D.,	$4.00	
Publishers' Weekly,	7.50	
Q. P. Index,	1.50	
Raymond, E. P.,	3.00	
Rider, S. S., Agt.,	10.50	
Rodman, T. R.,	10.00	
Roffe, A. H. & Co.,	217.45	
Sampson, Murdock & Co.,	14.00	
Schoenhof, Carl,	131.09	
Scribner, C., Sons,	4.00	
Scudder, S. H.,	45.00	
Soldiers' and Sailors' Histor. Society,	15.00	
Stechert, G. E.,	2.59	
Studies in Histor. and Political Science,	4.10	
Taber, Robert W.,	875.46	
Taylor, G. A.,	5.25	
Taylor, T. J.,	17.00	
Van Nostrand, D., Co.,	2.15	
Waldron, C. D.,	1.00	
Whitefield, E.,	15.00	
Winslow, W. C.,	10.00	
Yorston Bros.,	178.00	
Zahm, S. H. & Co.,	31.02	$5,120.61

GEORGE HOWLAND, JR., FUND.

1889.				
Jan. 1.	Unexpended balance of income,		$92.53	
	One year's interest,		96.00	
			$188.53	
	H. S. Inman,		100.00	$88.53

CHARLES W. MORGAN FUND.

1889.				
Jan. 1.	Unexpended balance of income,		$246.14	
	One year's interest,		60.00	
			$306.14	
	Little, Brown & Co.,	1.80		
	H. S. Inman,	36.50		
	Yorston Bros.,	260.00	298.30	$7.84

OLIVER CROCKER FUND.

1889.				
Jan. 1.	Unexpended balance of income,		$292.90	
	One year's interest,		60.00	
			$352.90	
	Academy of Nat. Sciences,	40.00		
	Edwin Dews,	15.00		
	American Polytechnic Co.,	75.00	130.00	$222.90

JAMES B. CONGDON FUND.

1889.				
Jan. 1.	Unexpended balance of income,		$320.37	
	One year's interest,		30.00	$350.37

GEORGE O. CROCKER FUND.

1889.				
Jan. 1.	Unexpended balance of income,		$225.54	
	One year's interest,		400.00	
			$625.54	
	C. F. Borden,	170.59		
	Yorston Bros.,	102.00		
	L. B. Ellis,	9.00	281.59	$343.95

DOG FUND.

1889.				
Jan. 1.	Unexpended balance,		$570.07	
Feb.	Received from County Treasurer,		1,043.23	
			$1,613.30	
	Paid Y. W. Ames, janitor,	$540.00		
	Briggs & Lawrence, furniture,	42.00		
	C. F. Borden, catalogue drawers	30.96		
	C. F. Wing, carpet and shades,	65.98		
	R. C. Ingraham,	750.00		
	A. P. Pope, carpenter,	10.54	1,439.48	$173.82

Total unexpended balance in the control of the Board of Trustees:

1890, Jan. 1.	Sylvia Ann Howland fund,	$6,075.84	
	George Howland, Jr., fund,	88.53	
	Charles W. Morgan fund,	7.84	
	Oliver Crocker fund,	222.90	
	James B. Congdon fund,	350.37	
	George O. Crocker fund,	343.95	
	Dog fund,	173.82	$7,263.25

GEORGE H. DUNBAR, Clerk.

GIFTS, 1889.

	Volumes.	Pamphlets.
Adderman, J. M., Providence,	1	6
American Antiquarian Society, Worcester, Mass.,		1
American Institute of Architects, A. J. Bloor, 18 Broadway, New York,		2
American Philosophical Society, Philadelphia, Pa.,	1	7
Amherst College, Amherst, Mass.,		1
Astor Library, New York, N. Y.,		1
Apprentices' Library, New York, N. Y.,		2
Apprentices' Library Co., Philadelphia,		1
Bancroft-Whitney Co., San Francisco, Cal.,	2	
Barrow, Mrs. John W.,	1	
Batten, John M., Inquirer Printing and Publishing Co., Lancaster, Pa.,	1	
Benton, J. H., Jr.,		1
Boston Public Library, Boston, Mass.,	1	3
Boston School of Expression,		1
Bradlee, Rev. Caleb D., Boston, Mass.,		3
Brayton, John S., Fall River, Mass.,	1	
Bridgeport Public Library,		1
Bronson Library Fund, Waterbury, Conn.,		2
Brookline Public Library, Brookline, Mass.,		1
Brooklyn Library, Brooklyn, New York,		2
Brown, Harold P.,		1
Brown, Wm. S., city,	2	
Brownell, T. Frank, New York City,	3	17
Buchanan, Robert,		1
Buckminster, Joseph, city,	2	
Buffalo Library, Buffalo, N. Y.,		1
Burns, Arthur, city,	2	
Bushnell, S. C., city,		4
Butler Hospital for the Insane, Providence, R. I.,		1
Central Vermont R. R., J. W. Hobart, St. Albans, Vt.,	2	
Chelsea Public Library, Chelsea, Mass.,		1
Chicago Public Library, Chicago, Ill.,		1
Choate, John C., Essex, Mass.,		1
Cincinnati Public Library, Cincinnati, Ohio,		5

City of New Bedford,	117	54
Cooke, J. P., Boston,		1
Clarke Inst. for Deaf Mutes, Northampton, Mass.,		1
Cleveland Public Library, Cleveland, Ohio,	1	
Coffin, Arthur,	1	
Columbia College, New York,	1	
Commissioners of State Reservation at Niagara, H. E. Gregory, secretary, 214 Broadway, N. Y.,		1
Commonwealth of Massachusetts, Secretary of Commonwealth, Boston,	21	2
Conn. Hist. Society,	1	
Cooper Union, New York,		1
Crapo, Wm. W., city,	8	
Cutter, Abram E., Charlestown, Mass.,		1
Department of Public Parks, New York,		1
Detroit Public Library, Detroit, Mich.,		1
Dexter, Franklin B., New Haven Conn., Photo.	2	1
Dunbar, G. H., city,	2	
Dyer, Lieut. Geo. L.,	1	
Egypt Exploration Fund, Rev. W. C. Winslow, 525 Beacon street, Boston,		1
Ewing, Thos.,		1
Fall River Public Library, Fall River, Mass.,		2
Farrington, Wm. H., Murray street, New York,		15
Fessenden, C. B H., city,	1	2
Flanders, Geo. T., city,	1	
Fletcher Free Library, Burlington, Vt.,		1
Friends' Free Library, Germantown, Pa.,		1
General Society of Mechanics and Tradesmen, New York City,		1
Gifford, Wm. L. R., city,		22
Ginn & Co., Boston,		1
Greely, A. W., Gen., Washington, D. C.,	1	
Green, Dr. Saml. A., Boston, Mass.,	8	135
Hartford Library Association, Hartford, Conn.,		5
Harvard University, Cambridge, Mass.,		4
Hathaway, Francis, city, Map of New Bedford, 1815.		
Hawes, Arthur C., city,		1
Hawes, Mrs. Lucy W.,		2
Hennecke, C., Co., Milwaukee, Wis.,	1	
Hildeburn, C. R.,		1
Hopedale Public Library, Hopedale, Mass.,		1
Hough, Dr. Geo. T., city,		64
Howland, George, Jr., city,	36	
Huling, R. G., city,		1

Knowlton, H. M., city,		1
Lancaster, A. E., 138 East 40th street, New York, N. Y.,	1	
Lancaster Library, Lancaster, Mass.,		1
Lawrence Free Library, Lawrence, Mass.,		1
Lee, Leslie A., Bowdoin College, Brunswick, Me.,	3	5
Leeds, Josiah W., 528 Walnut street, Phila.,		1
Littlefield, Geo. E., Cornhill, Boston,	1	
Lowell City Library, Lowell, Mass.,		1
Lunatic Hospital, Northampton, Mass.,		1
Lund, F. B., Harvard Medical School, Boston, Mass.,		1
Lynn Public Library, Lynn, Mass.,		1
Maimonides Library, New York,		1
Mass. Civil Service Commissioners, Boston, Mass.,		1
Mass. New Church Union, 169 Tremont st., Boston,		1
Mass. Society for Prevention of Cruelty to Children,		2
Matthes, Mrs. G. F., city,	4	
Mercantile Library, New York, N. Y.,		2
Mercantile Library Association, San Francisco, Cal.,		1
Merrill, E. B., New York City,	1	
Minnesota Hist. Society,		1
Mitchell, D. L.,		1
Morgan, S. G., city,	15	83
Moseley, E. A., Secretary Interstate Commerce Commission, Washington,	3	
New Bedford Board of Health,		3
New Bedford Board of Trade,	3	
New Bedford Water Board,		3
Newberry Library, Chicago, Ill.,		1
New Brunswick Histor. Society, St. Johns, N. B.,	1	
N. E. Conservatory of Music, Boston, Mass.,		1
New Jersey State Gov., M. A. Hamilton, State Librarian,	1	
New Jersey State Library, Newark, N. J.,	1	
Newton Free Library, Newton, Mass.,		1
Ohio Meteorological Bureau, C. E. Kilbourne, Sec., Columbus, Ohio,		12
Ohio State Forestry Bureau, A. Lené, Secretary, Cincinnati,	1	
Old Colony Hist. Society, Taunton, Mass.,		1
Omaha Public Library, Omaha, Neb.,		1
Peabody Institute, Baltimore,		1
Peabody Institute, Peabody, Mass.,		1
Peale, R. S. & Co., Chicago, Ill.,		1

Penn. College of Dental Surgery, Philadelphia, Pa.,		1
Perkins Inst. for the Blind, Boston, Mass.,		1
Philological Society, University College, London,		1
Pope, Franklin L.,	1	1
Potter, Wm. James, city,		1
Pouchet, Dr. Georges, Paris, 55 Rue de Buffon,		1
Poughkeepsie Board of Education, J. L. Sickley, Librarian,		10
Pratt Institute, Brooklyn,		1
Princeton College, Princeton, N. J.,		1
Providence Public Library, Providence, R. I.,		1
Publishers of the "Academe,"		1
Randall, Chas. S., city,	2	2
Redwood Library, Newport,		1
Rodman, Edmund, city,		12
Rodman, Thos. R., city, Framed table,	9	11
Rosse, Irving, Washington, D. C.,		1
Royal Society of Canada,	1	
Rugg, Chas. P., city,	1	
Rusk, J. M., Sec. of Agriculture, Washington, D. C.,	2	
St. Louis Public Library, St. Louis, Mo.,		1
Salem Public Library, Salem, Mass.,	1	
San Francisco Public Library, San Francisco, Cal.,		1
Sayer, Wm. L., city,	1	
Silas Bronson Library, Waterbury, Conn.,	1	
Smithsonian Inst., Washington, D. C.,	18	1
Spare, John, city,		1
Springfield City Library, Springfield, Mass.,		13
Stewart, Hon. Wm. M.,		1
Swain Free School, city,		1
Swift, Geo. B., Dep't of Public Works, Chicago, Ill.,	1	
Taunton Public Library, Taunton, Mass.,		1
Thompson, Mrs. Susan Taber, city,	2	165
Trenholm, W. L., Washington, D. C.,	2	
Tyler, Chas. E., city,	1	1
United States:		
— Coast Survey,	1	1
— Bureau of Education,	1	10
— Department of Interior,	124	1
— Department of State,	2	16
— Fish Commissioners,	7	
— Patent Office,	1	
— Treasury Department,	2	
— War Department,	4	
University of California, Berkeley, Cal.,		1

Warren County Library and Reading Room Association, Monmouth, Ill.,		7
Washingtonian Home, Boston,		1
Wilbur, Isaac P., Dartmouth.	1	
Willey, Henry, city,	1	5
Wilmington Institute, Delaware.		1
Winn, Henry, Boston, Mass.,		2
Woburn Public Library, Woburn, Mass.,		1
Womans Medical College, Philadelphia, Penn.,		1
Wright, Carroll D., Washington, D. C.,	1	
Zerbone, A., city,		5

In Board of Aldermen,
February 27, 1890.

Received, ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
February 27, 1890.

Concurred.

WM. A. MACKIE,
Clerk.

1890 — CITY DOCUMENT No. 5.

ANNUAL REPORT

OF THE

CHIEF ENGINEER

OF THE

FIRE DEPARTMENT,

OF THE CITY OF NEW BEDFORD,

FOR THE YEAR ENDING DECEMBER 31, 1889.

FREDERICK MACY, CHIEF ENGINEER.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS.
1890.

COMMITTEE OF THE CITY COUNCIL

ON

FIRE DEPARTMENT,

1889.

Aldermen.

EDWARD T. PIERCE,
Residence 103 Spring street.

JAMES DELANO,
Residence Orchard street.

Councilmen.

ANDREW G. PIERCE, JR.,
Residence 103 Spring street.

HARRY C. JENNEY,
Residence 31 Sycamore street.

JOHN J. HOWLAND,
Residence 74 North street.

Engineers' Department.

Chief Engineer.

FREDERICK MACY,

Residence 234 Acushnet Avenue.

First Assistant Engineer.

LORING T. PARLOW,

Residence 5 North street.

Second Assistant Engineer.

PLINY B. SHERMAN,

Residence 433 Acushnet avenue.

Third Assistant Engineer.

AUGUSTUS A. WOOD,

Residence 46 Hill street.

Fourth Assistant Engineer.

HUGH McDONALD,

Residence 113 Second street.

Clerk of Board of Engineers.

LUTHER G. HEWINS, Jr.,

Residence 762 County street.

Master Mechanic.

DANIEL D. BRIGGS,

Residence 43 Bedford street.

REPORT.

FIRE DEPARTMENT OFFICE,
CITY HALL, NEW BEDFORD,
DECEMBER 31st, 1889.

GENTLEMEN:—In compliance with the requirements of the city ordinance governing the Fire Department of the city of New Bedford, I herewith submit to you my thirteenth annual report of the doings and condition of the department for the year ending December 31st, 1889, together with a list of the members, with their rank, number of badge, age, residence, and occupation; location of fire alarm signal boxes, and distribution of keys to same; a statement of receipts and expenditures; fires and alarms; loss and insurance, as near as could be ascertained; location of hydrants and reservoirs; inventory of property in possession of the department; and such suggestions as I think may be of interest to you.

The department is in good condition and everything has worked very smoothly during the year, and although we have had a good many small fires, our losses have been comparatively small.

The only very disastrous fire we have had was the burning of Edmund Grinnell's foundry and machine shops on Water street, on the morning of August 26th, when, for some reason or other, there was a great delay in sending out an alarm, and when the first apparatus arrived on the grounds, we found a conflagration on our hands that required the united efforts of the whole department to control; and it was one more demonstration that our city

should learn from the experience of other less fortunate cities, that the fire department should be increased to keep pace with the growth of the city. In my last annual report I called the attention of the government to this matter, and they caused to be erected on the lot corner of Mt. Pleasant and Durfee streets a fine brick engine house, which is an ornament to the city and a credit to the government that ordered it. It has all of the modern improvements, and when completed will be one of the best fire department buildings in the city, and I hope the incoming government will equip it with new apparatus as soon as possible, for as you are aware, our city is growing very rapidly, and with quite a number of mills and large business blocks, to say nothing of the hundreds of dwellings erected each year, it does seem to me that everything in our power should be done to protect the property. It is a matter of necessity that we have a hook and ladder truck at the South End as soon as possible, to cover the Hathaway, Potomska, Howland and Acushnet Mills property; and this can be done with very little expense, as when the house of Number Six was built it was arranged to accommodate a truck when necessary, so that all the extra expense will be for truck and horses.

The only serious accident to any of the members of the department occurred on May 30th, when James M. Tripp, hoseman on Engine No. 4, had his wrist broken at a fire on Summer street.

Mary A. Harrison was so severely burned at a fire in rear of 187 Elm street, February 4th, that she died the next day.

FORCE OF THE DEPARTMENT.

The force of the department consists of one chief, four assistants and clerk, sixteen men permanently employed,

and one hundred and forty-nine call men, making a total of one hundred and seventy-one men.

APPARATUS.

The apparatus consists of five steamers in commission and one ready for immediate use in reserve, one hand engine stationed at the Head of the River, one hose wagon, one two-wheeled and five four-wheeled horse hose carriages, one Hayes aerial ladder truck, and one common hook and ladder truck in commission, and one old truck in reserve and stationed at the coal depot on Elm street, three sleigh reels, seven exercise and coal wagons, and one telegraph wagon, all in good order.

HOUSES.

The engine and ladder houses are in very good order, with the exception of Engine Five's, which is very inconvenient, but as there has been a special appropriation of thirty-five hundred dollars for the alteration of this building, I think it can be made into a very convenient house and we will commence on it early in the spring. There has been considerable work done on all of the houses the past year, and I think I can safely say they are in better order than ever before.

HORSES.

There are now twenty-five horses belonging to the department; during the year one died, and three were sold and four new ones purchased. It will be necessary to dispose of a few the coming year, as they are getting old and unfit for the work required of them.

HARNESSES.

There are nine sets of double and eight single harnesses, most of them in good order.

HOSE.

There are eleven thousand five hundred feet of cotton, rubber-lined hose in the department, most of it in good condition, but there is some which will have to be thrown out the coming year on account of age, as it is poor economy to keep hose in service unless it is perfectly reliable.

WATER SUPPLY.

The number of hydrants January 1, 1889, was four hundred and forty-five (445); added during the year fifteen (15), making a total of four hundred and sixty (460).

There are thirty-one (31) reservoirs, all in good order; it is a good while since we have had occasion to use them, but still it pays to keep them in case of an accident to the water works.

We have had a good supply of water on all occasions, and the new twenty-inch main through the city has been of great benefit to this department.

FIRE ALARM.

There has been a large amount of work done in this department. We have had a new six-circuit repeater put in to replace the old three-circuit one, new galvanometers and switch-boards, and in fact the whole machinery has been replaced by the latest improved and safest we could buy. We have reconstructed our lines and run about twelve miles of new wire, and have removed many of our

wires from buildings on to poles, which is by far the safest place. There have been four new boxes added during the year, viz.: 82, Hathaway Mills; 85, New Bedford Gas Light Co.; 91, Bennett Mills; 92, New Bedford Casket Co. We have now sixty-one (61) fire alarm boxes, thirty-five (35) miles of wire, nine (9) bell strikers, eight (8) fifteen-inch engine-house gongs, seven (7) seven-inch engineers' gongs, and three (3) small tappers operated by a battery of one hundred and ninety-one (191) cups.

PROTECTIVE DEPARTMENT.

The members of this department have been prompt, and there have been many times when rubber covers have been the means of saving many times their cost, and the only fault I have to find is, the limited number of covers we have at our disposal.

RECEIPTS AND EXPENSES.

Appropriation for 1889,		$35,000.00
Cash received and paid to City Treasurer, as follows:		
For sale of old material,	$52.00	
" " reels,	45.00	
" horses,	250.00	
" manure (City Farm),	279.05	
For pumping,	450.52	1,076.57
Transfer to balance account,		1,236.96
		$37,313.53
Expenditures,		$37,313.53

CONCLUSION.

To His Honor the Mayor and gentlemen of the City Government for their many acts of kindness, to the Board of Engineers for their hearty support, and to the officers and members of the department for the faithful manner in which they have performed all their duties, I return my most sincere thanks.

FREDERICK MACY,
Chief of Fire Department.

STATEMENT OF EXPENDITURES.

STATEMENT No. 1.

EXPENDITURES OF THE BOARD OF ENGINEERS FOR THE YEAR 1889.

Pay Roll,	$1,720.16

STATEMENT No. 2.

EXPENDITURES OF THE FIRE ALARM FOR THE YEAR 1889.

Pay of Assistant Superintendent,	$600.00
Repeaters, switch board and galvanometers,	1,119.00
Wire,	411.70
Boxes,	125.00
Vitriol,	55.20
Grain,	40.44
Labor,	530.05
Repairing harness,	4.25
Freight and carting,	3.15
Insulators,	9.82
Supplies and incidentals,	148.56
	$3,047.17

STATEMENT No. 3.

RUNNING EXPENSES OF THE COMPANIES FOR THE YEAR 1889.

Company pay-rolls,	$8,484.16
Permanent men's pay-rolls,	13,858.98
Hay and straw,	1,744.94
Grain,	756.94
Shoeing and blacksmithing,	401.73
Harnesses and repairs,	210.74
Wood and coal,	429.35
Gas,	202.98
Electric lights,	350.63
Engine and wagon repairs,	513.94
Incidentals,	107.35
	$27,061.74

STATEMENT No. 4.

EXPENDITURES OF THE NEW BEDFORD PROTECTING SOCIETY FOR THE YEAR 1889.

Pay-rolls,	$150.00

STATEMENT No. 5.

REPAIRS OF BUILDINGS FOR THE YEAR 1889.

Weld street engine house,	$123.73
Onward, No. 1, engine house,	116.79
Central engine house,	117.77
C. Howland, No. 4, engine house,	84.89
Repair shop,	71.85
Z. Hillman, No. 5, engine house,	113.52
F. Macy, No. 6, engine house,	50.18
	$678.73

STATEMENT No. 6.

INCIDENTAL AND SUPPLY ACCOUNT FOR 1889.

Horse hire,	$337.50
New hose and repairs,	950.50
Telephones,	350.00
Horses,	975.00
Labor,	176.81
Rent,	85.00
Printing and advertising,	14.50
Transportation and carting,	131.89
Cannel coal,	156.87
Sundries,	1,477.66
	$4,655.73

STATEMENT No. 7.

TOTAL EXPENDITURES OF THE FIRE DEPARTMENT FOR THE YEAR 1889.

Expenditures Board of Engineers, as per Statement No. 1,	$1,720.16
Expenditures of Fire Alarm, as per Statement No. 2,	3,047.17
Running expenses, as per Statement No. 3,	27,061.74
Expenses of Protecting Society, as per Statement No. 4,	150.00
Repairs on Buildings, as per Statement No. 5,	678.73
Incidentals and supplies, as per Statement No. 6,	4,655.73
	$37,313.53

Fire Department Roll.

ONWARD STEAM FIRE ENGINE CO., No. 1.

House on Purchase street, foot of Franklin street. Engine built by Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 6950 lbs.; weight of hose carriage, with 1050 feet of Boyd's cotton hose, 2850 lbs.; put into service August 26, 1869. Company organized January 1, 1870.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Apr. 29, 1873.	8	Allen W. Tinkham,	Foreman.	35	County ave.	Carpenter.
June 15, 1876.	17	George A. Tripp,	1st Asst.	41	63 Foster street.	Shoemaker.
Apr. 24, 1882.	6	Edward M. Durfee	2d Asst.	44	488 Acushnet av.	Blacksmith.
Dec. 30, 1871.	9	E. C. Milliken,	Clerk.	46	193 Pleasant st.	Baker.
Jan. 27, 1873.	7	Julian A. Sweet,	Hoseman.	41	State & Franklin.	Roll coverer.
May 31, 1880.	24	Charles A. Wilson,	"	33	111 Campbell st.	Carpenter.
May 7, 1883.	11	F. W. Brightman,	"	31	78 Middle st.	Paint manuf.
Oct. 27, 1884.	16	Edgar F. Tripp,	"	38	344 Pleasant st.	Shoemaker.
Dec. 29, 1884.	19	John Whitehead,	"	45	North Oak.	Sawyer.
Jan. 26, 1885.	15	James F. Powers,	"	36	102 Merrimac st.	Machinist.
Aug. 31, 1885.	10	Wm. O. Brightman	"	37	83 Austin st.	Paint manuf.
April 1, 1885.	18	Roland A. Hatch,	"	23	44 High st.	Fish dealer.
Sept. 1, 1885.	13	John T. Aghen,	Substitute.	27	6 Willis st.	Clerk.
1889.	12	Albert D. Milliken	"	19	193 Pleasant st.	"
Mar. 7, 1884.	20	Fred'k H. Wood,	Engineer.	29	Engine house.	Engineer.
Dec. 30, 1871.	21	James L. Bryant,	Driver.	51	"	Hostler.
Apr. 10, 1885.	23	Isaac Dawson,	Reel driver.	24	10 Austin st.	Teamster.
April 1, 1884.	22	Harris N. Tinkham	Stoker.	31	148 Parker st.	Blacksmith.

PROGRESS STEAM FIRE ENGINE CO., No. 2.

House corner Purchase street and Mechanics lane. Engine built by the Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine as drawn to fires, 7000 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.; put in commission November 6, 1884. Company organized October 27, 1860.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Oct. 7, 1878.	30	George M. Crapo,	Foreman.	38	48 No. Second st.	Frame Maker.
Nov. 1, 1862.	25	John Downey,	1st Asst.	52	77 No. Second st.	Teamer.
July 3, 1876.	32	Charles F. Dean,	2d Asst.	35	59 Elm st.	Carriage Painter.
Aug. 20, 1874.	27	James D. Allen,	Clerk.	53	202 Purchase st.	Clerk.
Jan. 1, 1872.	29	James G. Harding,	Hoseman.	55	62 State st.	Carpenter.
Jan. 1, 1872.	28	Edw'd C. Spooner,	"	55	10 Spruce st.	Teamer.
July 6, 1874.	26	Eugene R. Leverett	"	36	188 Middle st.	Clerk.
July 3, 1876.	34	Moses Dean,	"	36	202 Purchase st.	Blacksmith.
May 5, 1884.	36	Saml. W. Mitchell,	"	31	155 Purchase st.	Painter.
May 11, 1885.	35	Wm. K. Wagner,	"	33	208 Pleasant st.	Telephone Inspector.
Jan. 6, 1886.	37	E. Kempton Pierce	"	28	19 Mill st.	Shoemaker.
1888.	31	W. D. Jacobs,	"	23	59 Elm st.	Student.
April 4, 1876.	38	George B. Russell,	Engineer.	57	North st.	Engineer.
May 1, 1871.	39	William P. Soule,	Driver.	57	303 Acushnet av.	Hostler.
Aug. 20, 1874.	40	Lemuel W Hayes,	Stoker.	46	18 Hillman st.	Wood turner
July 16, 1876.	41	Michael Conway,	Reel driver	51	8 Walnut st	Hostler.
1889.	33	Alex. J. Aiken,	Substitute.	27	76 No. Second st	Painter.
1889.	24	Jas. L. Crowley,	"	21	98 No. Water st.	Plumber.

CORNELIUS HOWLAND STEAM FIRE ENGINE CO., No. 4.

House corner Sixth and Bedford streets. Engine built by the Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 7000 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service May 20, 1884. Company organized February 1, 1867.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 10, 1877.	42	Edgar S. Gilbert,	Foreman.	42	27 Fifth st.	Painter.
Aug. 31, 1885.	48	Jas. J. Donaghy,	1st Asst.	25	91 Washington st	Machinist.
Dec. 6, 1877.	47	Charles H. Card,	2d Asst.	41	73 Forest st.	Painter.
May 4, 1868.	50	William A. Gibbs,	Clerk.	39	73 Forest st.	Cabinet Maker.
Jan. 29, 1867.	46	James M. Tripp,	Hoseman.	53	211 Acushnet av.	Carpenter.
Nov. 10, 1879.	53	Benj. F. Hinckley,	"	33	22 Madison st.	Printer.
Aug. 28, 1882.	45	Samuel Watson, 2d	"	32	37 Fifth st.	Grocer.
Jan. 31, 1881.	44	Charles S. Wing,	"	35	199 So. Second st.	Grocer.
Oct. 27, 1884.	51	Roland W. Snow,	"	54	139 Fourth st.	Painter.
July 26, 1886.	43	Wm. E. Watson, Jr.	"	25	37 Fifth st.	Clerk.
Aug. 29, 1887.	55	Henry J. Marshall,	"	26	63 School st.	Blacksmith.
Feb. 16, 1888.	54	Frank C. Jennings	"	23	19 Allen st.	Jeweller.
Apr. 29, 1878.	56	Alonzo V. Jason,	Engineer.	35	Engine house.	Machinist.
Apr. 5, 1889.	58	John H. Backus,	Stoker.	38	Rivet and Crapo.	Blacksmith.
Jan. 29, 1867.	57	Geo. H. W. Tripp,	Driver.	53	Engine house.	Hostler.
Apr 1, 1889.	59	Wm. C. Kennedy,	Reel driver	22	100 Bedford st.	Clerk.
Mar. 25, 1889.	54	Leander Reed,	Substitute.	39	3 Bay st.	Machinist.
Apr. 1, 1889.	55	John W. Donaghy,	"	23	103 Acushnet av.	Marble Worker.

ZACHARIAH HILLMAN STEAM FIRE ENGINE CO., No. 5.

House corner of County and Hillman streets. Engine built by Messrs. Clapp & Jones, Hudson, N. Y.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 7250 lbs.; weight of hose carriage with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service December 13, 1873. Company organized December 13, 1873.

Date of Joining	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Jan. 29, 1883.	60	Charles C. Gifford,	Foreman.	44	151 North st.	Carpenter.
July 27, 1885.	65	John F. Gifford,	1st Asst.	35	169 Kempton st.	Teamster.
Feb. 1, 1884.	68	Squire A. Gifford,	2d Asst.	33	106 Cedar st.	Teamster.
June 7, 1888.	63	Joseph C. Forbes,	Clerk.	23	201 Cedar st.	Shoemaker.
May 1, 1876.	64	Geo. H. Chadwick,	Hoseman.	55	154 Kempton st.	Painter.
Dec. 13, 1873.	62	Isaiah H. Wilcox,	"	54	506 Acushnet av.	Painter.
May 25, 1885.	66	Charles H. Brown,	"	36	151 Cedar st.	Teamster.
May 23, 1886.	61	Henry C. Stubbs,	"	37	638 County st.	Painter.
1889.	71	Obed S. Cowing,	"		32 North st.	Carpet Upholsterer.
May 5, 1884.	67	George H. Cook,	"	29	14 Spruce st.	Clerk.
1889.	69	Wm. H. Knowles,	"	30	154 North st.	Grocer.
Dec. 31, 1888.	70	Thomas H. Forbes	"	28	121 Cedar st.	Shoemaker.
Feb. 23, 1885.	73	Arthur Forbes,	Substitute,	22	151 North st.	Clerk.
June 7, 1888.	72	Henry Jones,	"	21	65 Chestnut st.	Machinist.
Dec. 13, 1873.	74	Martin Blanchard,	Engineer.	46	Engine house.	Engineer.
Jan. 29, 1883.	77	Martin S. Nelson,	Reel driver	33	60 Thomas st.	Clerk.
Jan. 7, 1876.	75	Benj. F. King, Jr.,	Driver.	49	Engine house.	Hostler.
May 1, 1882.	76	Charles Jones,	Stoker.	37	"	Wood Turner.

FREDERICK MACY STEAM FIRE ENGINE CO., No. 6.

House on Fourth street, head of Potomska street. Engine built by Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine as drawn to fires, 7100 lbs.; weight of hose carriage with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service November 1, 1882. Company organized October 31, 1882.

Date of Joining	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Oct. 31, 1882.	121	George W. Parker,	Foreman.	38	135 Washington st	Bookkeeper.
Oct. 26, 1886.	130	Edward W. O'Neil,	1st Asst.	28	30 Thompson st.	Glass cutter.
May 8, 1884.	126	Robert N. Allen,	2d Asst.	45	26 Thompson st.	Painter.
Oct. 31, 1882.	122	Herb. B. Gardner,	Clerk.	43	114 Washington st	Compositor.
Oct. 31, 1882.	127	Thomas Wood,	Hoseman.	43	34 Bonney st.	Photograp'r.
Oct. 31, 1882.	125	Marshall S. Greene	"	35	Rivet st., near Crapo.	Mason.
Mar. 27, 1883.	128	Joseph Jackson,	"	34	59 Allen st.	Barber.
Oct. 31, 1882.	131	Charles R. Cornell,	"	32	283 County st.	Stable Keeper.
Oct 31, 1882.	132	Jason L. Ballou,	"	44	37 Crapo st.	Carpenter.
Oct. 31, 1882.	133	Charles K. Wood,	"	38	87 Acushnet ave.	Passapar-tout Maker.
June 22, 1885.	124	James Harrington Sherman,	"	41	234 County st.	Machinist.
Nov. 24, 1885.	123	Henry M. Mosher,	"	41	205 County st.	Press worker
Oct. 31, 1882.	135	Frederick Nelson,	Substitute.	23	200 So. Second st.	Mason.
Jan. 1, 1888.	138	Walter Almond,	"	27	Hall st.	Turner.
Oct. 31, 1882.	137	Charles G. Taber,	Engineer.	41	224 County st.	Engineer.
Nov. 10, 1886.	142	Benj. C. Groves,	Stoker.	33	284 Fourth st.	Machinist.
Oct. 31, 1882.	134	Frank A. C. Greene	Driver.	24	87 Acushnet ave.	Driver.
Oct. 31, 1882.	136	N. Herbert Greene,	Reel driver	33	Acushnet av. and Potomska st.	Teamer.

HANCOCK ENGINE CO., No. 9.

House located at Acushnet. Engine built by John Agnew of Philadelphia, in 1843. Engine removed to Acushnet Jan. 18, 1861, and a company was organized to man her at that time. Company reorganized Dec. 14, 1878.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 14, 1888.	146	John A. Russell,	Foreman.	39	Acushnet ave.	Farmer.
May 7, 1883.	147	Francis P. Washburn,	1st Asst.	46	"	Carpenter.
Dec. 14, 1878.	154	Joseph W. Spooner	2d Asst.	37	"	Milkman.
"	165	Allen Russell, Jr.,	Clerk.	32	"	Grocer.
"	149	John Sylvia,	Steward.	52	Belleville road.	Shoemaker.
May 1, 1882.	159	Israel H. Peckham	Suction Hoseman.	47	Tarkiln Hillroad	Blacksmith.
Nov. 3, 1886.	150	Job T Haskins,	Brakeman.	43	Mill street.	Laborer.
Dec. 14, 1878.	153	William T. Gifford	Leading Hoseman.	42	"	Farmer.
"	160	Herb't M. Spooner	"	32	Acushnet ave.	Boxmaker.
Sept. 3, 1883.	151	John G. Whalon,	"	28	"	"
Dec. 14, 1878.	148	Andrew B. Grinnell, Jr.,	Brakeman.	50	"	Grocer.
"	152	James A. Wilbor,	"	43	Mill st.	Laborer.
"	157	George W. Randall	"	52	Main st.	Carpenter.
"	166	Eli W. Reed,	Suction Hose.	51	Tarkiln Hillroad	Teamster.
"	158	Lemuel A. Washburn,	Brakeman.	51	Acushnet ave.	"
Dec. 4, 1882.	164	George W. Hawes,	"	35	"	"
Oct. 8, 1885.	155	James L. Haskins,	Leading Hoseman.	29	"	"
Dec. 1886.	145	John F. Parker,	Brakeman.	22	"	Painter.
1888.	162	John G. Dawson,	"	25	Tarkiln Hillroad	Teamster.
1888.	163	Nathan C. Briggs,	"	52	Acushnet ave.	Carpenter.
Feb. 4, 1889.	161	Wm. P. Reed,	"	36	Tarkiln Hillroad	Laborer.
1886.		George H. Gifford,	Substitute.	18	Acushnet ave.	Clerk.
1888.		John B. Wilbor,	"	18	Mill st.	Laborer.

HOOK AND LADDER CO. No. 1.

House corner of Purchase street and Mechanics lane. Carriage built by La France Steam Fire Engine Co., Elmira, N. Y.; put into commission August 30, 1888.

Date of Joining.	No. of Badge	Name.	Rank.	Age	Residence.	Occupation.
Aug. 5, 1865.	102	Charles J. Johnson	Foreman.	57	23 Locust st.	Spar maker.
Feb. 5, 1884.	101	Frank Spooner,	1st Asst.	34	85 So. Second st.	Painter.
Sept. 26, 1887.	100	Loren N. Mosher,	2d Asst.	32	60 Mechanics Lane.	Shoemaker.
May 31, 1874.	89	Charles E. Pierce,	Clerk.	42	123 Fifth st.	Printer.
Feb. 5, 1884.	98	Chas. B. Allison,	Ladderm'n	33	66½ Mill st.	Hackman.
1888.		John W. Cannavan	"	27	Mt. Pleasant House.	Shoemaker.
Aug. 1, 1879.	96	Nathl. H. Caswell,	Axeman.	42	500 Acushnet av.	Blacksmith.
June 30, 1870.	87	Lysander W. Davis	Ladderm'n	56	106 Chestnut st.	Carpenter.
June 24, 1883.	105	Edward D. Francis	"	34	26 Kempton st.	Shoemaker.
June 2, 1880.	103	Alfred M. Gifford,	"	25	72 Walden st.	Decorator.
May 24, 1886.	95	Andr'w V. Landers	Axeman.	51	Chestnut street, near Pope.	Shoemaker.
Oct. 26, 1863.	90	Abram R. Luscomb	Ladderm'n	50	159 Pleasant st.	Laborer.
Dec. 1, 1886.	107	Wm. R. Russell,	"	23	37 So. Second st.	Ornamenter.
Aug. 7, 1863.	86	Philip M. Tripp,	"	51	84 Elm st.	Teamster.
1889.	104	Philip C. Russell,	"	27	37 So. Second st.	"
July 26, 1880.	92	Clarfus Vansant,	"	52	Mill st. and Acushnet ave.	Blacksmith.
Sept. 21, 1881.	106	William A. Hamer	Substitute.	22	78 Middle st.	Printer.
1889.	91	Wm. L. Fletcher,	"	24	129 Kempton st.	Electric light Trimmer.
Sept. 1, 1888.	93	George S Allen,	Driver.	29	36 Elm st.	Hostler.
1888.	97	Charles W. Vining,	Tillerman.	33	Engine house.	

HOOK AND LADDER CO. No. 2.

House on Weld street. Carriage built by Joseph T. Ryan of Boston; put into commission August 4, 1877. Present company organized September, 1888.

Date of Joining.	No. of Badge.	Name.	Rank.	Age.	Residence.	Occupation.
Sept., 1880.	171	Henry W. Kenyon	Foreman.	47	910 Acushnet av.	Overseer.
"	172	Edward F. Dahill,	1st Asst.	27	Hazard and Pleasant sts.	Merchant.
"	173	Albert W. Moore,	2d Asst.	39	32 Weld st.	Hair dresser.
"	174	James Slater.	Poleman.	41	678 Purchase st.	Merchant.
"	175	Martin H. Sullivan	Axeman.	32	1017 Purchase st.	Carpenter.
"	176	John W. Bannister	Ladderm'n	28	110 Merrimac st.	Salesman.
"	177	John S. Harrington	"	30	Weld and Pleasant sts.	Baker.
"	178	David Warren,	"	33	235 State st.	Stablekeeper
"	179	William McCann,	"	29	Howard st.	Roller Coverer.
"	180	Peter F. Sullivan,	Clerk.	29	370 State st.	Grocer.
"	181	Edward T. Ryan,	Ladderm'n	32	County and Penniman sts.	Barber.
"	182	Alfred Chausse,	"	22	Cedar Grove st.	Clerk.
"	183	Jeremiah T. Haggerty,	Substitute.	21	Bowditch st.	"
"	184	Sylvester Budlong	"	19	81 Merrimac st.	Caster.
	108	Lewis G. Allen,	Driver.	67	Engine house.	Hostler.

HOSE COMPANY No. 1.

House corner of Purchase street and Mechanics lane. Wagon built by Brownell, Ashley & Co., New Bedford; put in commission December 1, 1888. Company organized December 31, 1871.

Date of Joining.	No. of Badge.	Name.	Rank.	Age.	Residence	Occupation.
Dec. 6, 1873.	82	David W. Howland	Foreman.	53	45 North st.	Blacksmith.
Mar. 6, 1885.	79	Chas. T. Maxfield,	1st Asst.	25	49 Mechanics Lane.	Printer.
1887.	85	John B. Oliver,	2d Asst.	25	200 Elm st.	Blacksmith.
Jan. 1, 1873.	81	Jas. S. Hathaway,	Clerk.	59	496 Acushnet av.	Shipwright.
1889.	83	John W. Baker,	Hoseman.	28	50 Mill st.	Carpenter.
Dec. 1885.	78	Augustus G. Mitchell,	"	31	86 No. Second st.	Painter.
1888.	84	William H. King,	Driver.	29	Cottage & Mill st.	Laborer.
1888.	80	Wm. H. Maxfield,	Hoseman.	23	49 Mechanics Lane.	Clerk.
1889.	167	Wm. Young,	Substitute.	29	51 Mill st.	Laborer.

HOSE COMPANY No. 2.

House on Weld street. Carriage built by the Amoskeag Manufacturing Co., Manchester, N. H.; weight of carriage and 900 feet of vulcanized rubber hose, 2790 lbs.; put into service January 1, 1872. Present company organized December 3, 1888.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 3, 1888.	186	Samuel C. France,	Foreman.	30	Mt. Pleasant st.	Salesman.
"	187	Joseph Dawson,	1st Asst.	29	643 Purchase st.	Salesman.
"	188	Mark Watson,	2d Asst.	30	990 Purchase st.	Salesman.
"	192	Geo. C. Hewins,	Clerk.	18	762 County st.	Salesman.
"	189	Stephen L. Finnell	Hoseman.	30	Reynolds st.	Salesman.
"	190	Bartholomew P. Fury,	"	25	815 Purchase st.	Mule spinner
"	191	Frank E. Foley,	"	22	State st.	Fisherman.
"		Wm. Wolfenden,	Substitute.	20	132 Cedar Grove.	Hair dresser
"	193	Reuben Taber,	Driver.	34	32 Bowditch st.	Hostler.

NEW BEDFORD PROTECTING SOCIETY.

President, Charles S. Kelley; First Director, Jonathan Handy; Second Director, William A. Robinson; Third Director, Charles H. Lawton; Fourth Director, Edward T. Pierce; Fifth Director, Charles M. Haskell; Sixth Director, Edmund F. Maxfield; Seventh Director, Edmund Wood; Eighth Director, John H. Lowe; Secretary and Treasurer, Edmund L. Wilde.

Francis T. Akin,
Gilbert Allen,
Gideon Allen, Jr.,
George H. H. Allen,
O. Frank Bly,
Standish Bourne,
George E. Briggs,
Thomas Boardman,
Charles A. Case,
R. C. P. Coggeshall,
Clifton H. Cornish,
Edwin Dews,
Henry C. Denison,
John H. Denison,
Ernest A. Dunham,
Fred C. Dunham,
Joseph Dias,
Walter F. Field,
Edward R. Gardner,
John E. Gibbs,
Edmund Grinnell,
Frank H. Gifford,
Chas. H. Gifford,
A. W. Hadley,
Charles B. Hillman,
John J. Howland,
Charles M. Hussey,
Henry F. Hammond,
Henry Howard,
Thomas H. Knowles,
G. D. Kingman,
Edgar R. Lewis,
Philander F. Manchester,
Willard Nye, Jr.,
Otis N. Pierce,
William F. Potter,
Arthur E. Perry,
James N. Parker,
William H. Pitman,
Charles L. Paine,
William F. Reed,
Morgan Rotch,
William A. Russell,
Arthur E. Robbins,
Louis H. Richardson,
Gardner T. Sanford,
R. W. Swift,
Frederick Swift,
William T. Smith,
Leander H. Swift,
Edward S. Shaw,
Robert Snow,
Charles M. Taber,
William T. Taylor,
Henry W. Taylor,
Francis C. Terry,
Alfred Thornton,
Alfred G. Wilbor,
William H. Willis,
Horace Wood,
Frederick A. Washburn,
Thomas F. Wood,
William R. West,
Mark T. Vincent.

Fire Alarms, Losses, and Insurance for 1889.

The loss by fire for the year 1889 was $48,285.71. Amount of insurance, $182,772. Number of bell alarms, 34. Still and telephone alarms, 50.

Jan. 4, 6 15 A. M. (Still.) Fire in house on Purchase street, owned and occupied by Almadus Tripp. Caused by lighting fire with kerosene. Extinguished by men from Central engine house. Loss trivial.

Jan. 4. (Still.) Chimney fire at residence of Dr. Swift. Extinguished by men from No. 4 engine house. No loss.

Jan. 6, 12 58 A. M. Box 23. Fire in house on Beach street, owned by Edwin A. Douglass and occupied by Thos. Boyd. Cause, incendiary. Companies responding: Engines 2 and 5, Hook and Ladder 1 and Hose 1. Alarm given by officer. Loss, $450; insurance, $500.

Jan. 9. (Still.) Fire in dwelling house No. 95 Hillman street, owned and occupied by Wm. W. Bonney. Cause, overheated stove. Extinguished by men from No. 5 engine house. Loss on building, $24.47; insurance, $1,600. Loss on furniture, $24.80; insurance, $600.

Jan. 15. (Still.) Chimney fire at residence of Wm. G. Wood on Bedford street. Extinguished by men from No. 4 engine house. No loss.

Jan. 23, 10 A. M. Box 29. Fire in house southeast corner of Arnold and Chancery streets, owned and occupied by Mrs. Susan A. Ashley. Cause, boy playing with matches. Companies responding: Engines 4 and 5, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss trivial.

Jan. 31. (Still.) Fire in a pile of rags in cellar of house corner of Pleasant and Maxfield streets, occupied by Mrs. Ellen Wood. Extinguished by men from Central engine house. Loss trivial.

Feb. 1. (Still.) Fire in house owned by Thos. J. Meany, No. 959 South Water street. Extinguished by men from No. 6 engine house.

Feb. 4, 9 30 A. M. Box 28. Fire in dwelling house rear of 187 Elm street, owned and occupied by Chas. H. Harrison. Cause, woman's skirts coming in contact with hot stove. Mrs. Mary A. Harrison was so badly burned that she died the next day. Companies responding: Engines 2 and 5, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss trifling.

Feb. 5. (Still.) Chimney fire in house corner of Summer and Parker streets, owned and occupied by Geo. Priestly. Extinguished by men from No. 5 engine house. No loss.

Feb. 6, 1 30 P. M. Box 24. Fire in dwelling house No. 169 Elm street, owned and occupied by Mrs. Elizabeth Carter. Cause, defective chimney. Companies responding: Engines 2 and 5, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss trivial.

Feb. 6. (Still.) Chimney fire in house No. 30 Hill street. Extinguished by men from No. 5 engine house. No loss.

Feb. 7. (Still.) Fire in card room of Potomska Mill No. 2. Caused by friction of machinery. Extinguished by employés. Loss slight.

Feb. 8, 1 30 P. M. Box 29. Fire in barn corner of Clinton and Cottage streets, owned by Miss Mary B. Hathaway. Cause, incendiary. Companies responding: Engines 4 and 5, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss on building, $565.80; insurance, $1300. Loss on stock, $50; no insurance.

Feb. 8. (Still.) Smoke in residence of Miss Louisa C. Howland, corner of County and Russell streets. Responded to by men from No. 4 engine house.

Feb. 14, 12 20 A. M. Box 27. Fire in building No. 40 Purchase street, owned by B. H. Waite and occupied by P. O. Gallup as a clothing store. Cause, overheated furnace pipe. Companies responding: Engines 2 and 4, Hook and Ladder 1 and Hose 1. Alarm given by officer.

Feb. 14, 12 25 A. M. Box 27. Second alarm for same fire. Companies responding: Engines 1 and 5, Hook and Ladder 2. Alarm given by Chief Engineer. Loss on building, $1,080; insurance, $9,000. Loss on stock and fixtures. $12,171.98; insurance, $15,000; T. J. Gifford's loss, $569.75; insurance, $4,500.

Feb. 14, 1 45 P. M. Box 48. Fire in building 512 and 514 South Water street, owned and occupied by John S. Williams as an undertaker's establishment on first floor and tenement above. Cause, defective chimney. Companies responding: Engines 4 and 6, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss on building, $400; no insurance. Loss on stock and fixtures, $200; no insurance.

Feb. 19, 10 30 A. M. Box 34. Fire in house No. 35 South Water street, owned by heirs of Daniel Worden and occupied by Mrs. Mary Reagan. Cause, overheated stove pipe. Companies responding: Engines 2 and 4, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss trivial.

Feb. 27, 11 30 A. M. Box 34. Fire in building corner of North Water street and Rose alley, occupied by Chas. Taber & Co. Cause, sparks from chimney. Companies responding: Engines 2 and 4, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss trivial.

March 3, 2 45 A. M. Box 38. Fire in barn on Fifth street, owned by Benjamin Lindsey and occupied by David H. Morrisey. Cause, carelessness. Companies responding: Engines 4 and 6, Hook and Ladder 1 and Hose 1. Alarm given by officer. Loss, $118; insurance, $800.

March 6, 5 P. M. Box 51. Fire in house No. 102 Dartmouth street, occupied by Manuel Francis. Cause, wood in oven. Companies responding: Engines 4 and 6, Hook and Ladder 1 and Hose 1. Alarm given by citizen. No loss.

March 7. (Still.) Fire in Tripp's restaurant, owned by Wm. B. Macomber and others. Cause, hot stove pipe. Extinguished by men from No. 4 engine house. Loss trivial.

March 9, 9 A. M. Box 57. Fire in building on South Second street, owned by Frank Pimental and occupied by Lemuel Higham and Mrs. Alice Howard. Cause, defective chimney. Companies responding: Engines 4 and 6, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss on building, $471; insurance, $1,100. Loss on furniture, etc., $250; insurance, $500.

March 9, 11 05 A. M. Box 4. Fire in building on Mt. Pleasant street, owned and occupied by O. G. Brownell. Cause, explosion of petroleum lamp. Companies responding: Engines 1 and 5, Hook and Ladder 2 and Hose 2. Alarm given by citizen. Loss, $100; insurance, nothing.

March 9, 9 P. M. (Still.) Fire in residence of Hon. Jonathan Bourne. Cause, hot ashes in barrel. Extinguished by men from Central engine house. Loss, $11.25; insurance, $11,500.

March 11, 1 A. M. (Still.) Fire in house No. 95 South Sixth street, owned by John H. Jenifer and occupied by Mrs. Julia Wheeler. Cause, mice and matches. Extinguished by men from No. 4 engine house. No loss.

March 15, 2 30 P. M. (Still.) Chimney fire in house No. 185 South Second street, owned by Catherine Mullen and occupied by John Hacket. Extinguished by men from No. 4 engine house. No loss.

March 19, 7 30 A. M. (Still.) Chimney fire in house 226 Union street, owned by Samuel P. Richmond and occupied by Joseph Tillinghast. Extinguished by men from Central engine house. No loss.

March 22, 9 P. M. (Still.) Fire in Mansion House, owned by S. T. Vial and others and occupied by Peleg Thurston and others. Caused by overheated hanging lamp. Loss, $20; insurance, $13,000.

April 4, 12 30 P. M. (Still.) Fire in house corner of County and Wing streets, owned by heirs of Sylvester Snow and occupied by Benjamin Booth as a shoe store. Cause, overheated stove. Responded to by men from No. 4 engine house. No loss.

April 8. (Still.) Chimney fire in house on Irving court, occupied by Frank R. Slocum. Extinguished by men from Central engine house. No loss.

April 9, 7 53 A. M. Box 24. Fire in house No. 166 Hillman street, owned by John P. Jenney and occupied by Joseph Gregnon. Cause unknown. Companies responding: Engines 2 and 5, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss on building, $500; no insurance. Loss on furniture, $798; insurance, $1,200.

April 22, 12 night. Box 51. Fire in barn on Oak street, belonging to Cornelius Cronin. Cause, incendiary. Companies responding: Engines 4 and 6, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss, $150; insurance, $150.

April 24, 10 30 A. M. (Still.) Fire on roof of Geo. L. Brownell's blacksmith shop. Cause, sparks from chimney. Extinguished by employés of shop. No loss.

April 30. (Still.) Fire in rooms of New Bedford Cycle Club in Cummings building. Cause, unknown. Loss, $40; insurance, $23,000.

May 1, 2 P. M. (Still.) Fire on roof of Wm. T. Russell's house, corner of Sixth and Russell streets. Caused by sparks from burning carpet paper in the yard. Extinguished by men from No. 4 engine house. Loss, $15.69; insurance, $4,000.

May 18, 12 midnight. (Still.) Fire in building on South Water street, owned and occupied by George P. Gifford. Cause, unknown. Loss, $55.02; insurance, $1,900.

May 30, 4 P. M. Box 27. Fire in house No. 61 Summer street, owned by Phebe A. Parker and occupied by Wm. O. Cross and others. Cause, oil stove. Companies responding: 2 and 4, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss on building, $486; insurance, $2,000. Loss on furniture, $250; insurance, $400.

June 7, 3 45 P. M. (Still.) Fire in house corner of William and Bethel streets, owned by John M. Foster and occupied by Wm. F. Maxfield, C. F. Lawrence and others. Cause, sparks from neighboring chimney. Extinguished by men from Central engine house. Loss, $15; insurance, $1,800.

June 11, 9 55 A. M. (Still.) Chimney fire in house No. 614 County street, owned by Mrs. Mary J. Keen and occupied by Chas. S. Weeden. Extinguished by men from No. 5 engine house. No loss.

June 13, 10 A. M. (Telephone.) Fire in dwelling house No. 73 Allen street, owned by Elizabeth Bonney and occupied by William Guthrie. Cause, defective chimney. No loss.

July 3, 9 P. M. Box 125. Fire in building No. 11 Weld street, owned by Abbott P. Smith and Chas. E. Cook and occupied by Frank R. Pease, druggist. Cause, fireworks. Companies responding: Engines 1 and 5, Hook and Ladder 2 and Hose 2. Alarm given by citizen. Loss on building, $100; insurance, $2500. Loss on stock, $100; insurance, $1,000.

July 11, 2 30 P. M. Box 27. Fire in house No. 30 Elm street, owned by George Hastings and occupied by Mrs. Root. Cause, children playing with matches. Companies responding: Engines 2 and 4, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss, $20.05; insurance, $1,500.

July 12. (Still.) Fire in building corner of Eighth and Elm streets, owned and occupied by John F. Perry. Cause, defective chimney. Extinguished by men from Central engine house. No loss.

July 13, 10 P. M. Box 13. Fire in building No. 323 Cedar street, owned by James E. Stanton and occupied by Dennis Murphy. Cause, explosion of lamp. Companies responding: Engines 1 and 5, Hook and Ladder 1 and Hose 1. Alarm given by officer. No loss.

July 15, 2 A. M. Box 27. Fire in building 179 Purchase street, owned by Thomas Sayer and occupied by Philip H. Slocum. Cause, unknown. Companies responding: Engines 2 and 4, Hook and Ladder 1 and Hose 1. Alarm given by officer. Loss on building, $350; insurance, $500. Loss on furniture, $199.50; insurance, $500. Loss on Ingalls building, $8; insurance, $1,000.

Aug. 7, 6 P. M. Box 52. Fire in building No. 11 Rockland street, owned by George M. Swasey and occupied by Swasey and Mrs. Margaret Kennedy. Cause, incendiary. Companies responding: Engines 4 and 6, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss on building, $138.32; insurance, $1,000. Loss on furniture, $100; no insurance.

Aug. 13, 1 30 P. M. Box 3. Fire in house on Plainville road, owned and occupied by James Quigley. Cause, unknown. Companies responding: Engines 1 and 9, Hook and Ladder 2 and Hose 2. Alarm given by citizen. Loss on building, $500; insurance, $700. Loss on furniture, $300; insurance, $300.

Aug. 13, 7 A. M. (Still.) Fire in building on Purchase street, owned by Bradford Smith and occupied by Poisson Bros. Cause, goods in store window too near gas jet. Loss on building, $4.70; insurance, $6,000. Loss on stock, $72.15; insurance, $10,500.

Aug. 21. (Still.) Fire in Glory Hole at Mt. Washington Glass Works. Loss, $177.25; insurance, $25,000.

Aug. 21. (Still.) Smoke in residence of Dr. Nickerson on Middle street. Caused by telephone wires being crossed.

Aug. 26, 4 58 P. M. Box 46. Fire in Grinnell's Foundry, foot of Coffin street, communicating with other buildings. Cause, incendiary. Companies responding: Engines 4 and 6, Hook and Ladder 1 and Hose 1. Alarm given by officer.

5 A. M. Box 46. Second alarm. Companies responding: Engines 2 and 5. Alarm given by Chief.

5 05 A. M. Box 46. Third alarm. Companies responding: Engine 1, Hook and Ladder 2 and Hose 2. Alarm given by Chief.

Loss on Grinnell's Buildings,	$5,342.26	Insurance, $8,272
Loss on stock and patterns,	19,885.07	Insurance, 9,000
Loss on Holmes & Blanchard's patterns	1,250.00	Insurance, 1,250
Loss on J. Bourne's buildings,	319.05	Insurance, 18,000
Loss on Hart & Akin's building,	400.00	No insurance.
Loss on Hart & Akin's stock,	200.00	No insurance.
Loss on Hart & Akin's building,	37.00	Insurance, 1,000

Aug. 27, 12 05 P. M. Box 27. Fire in building on Mill street, owned by Mrs. Thos. Macomber and occupied by E. R. Hathaway as a paint shop and John Dugdale as a tenement. Cause, unknown. Companies responding: Engines 2 and 4, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss, $20; no insurance.

Aug. 28. (Still.) Slight fire in L. A. Plummer, Jr.'s house on Hawthorn street. Caused by crossing of telephone and electric light wires.

Sept. 3. (Still.) Smoke in house corner of Sixth and Spring streets. Caused by paper in air-tight stove.

Sept. 16, 5 15 A. M. (Still.) Fire in shop on Purchase street, owned by O. P. Brightman and occupied by F. M. Carleton, harness maker. Cause, spontaneous. Loss on building, $13.15; insurance, $2,500. Loss on stock, $32; insurance, $600.

Sept. 25, 9 P. M. Box 34. Fire in building Nos. 22 and 24 North Water street, owned by John R. Thornton and occupied as a laundry by G. H. Downs and as a paint shop by Kern & Wright. Cause, unknown. Companies responding: Engines 2 and 4, Hook and Ladder 1 and Hose 1. Alarm given by officer Daly. Loss on building, $260; insurance, $1,500. Loss on G. H. Downs' stock, $138.20; insurance, $800. Loss on Kern & Wright's stock, $50; insurance, $1,000.

Oct. 2. (Still.) Fire in house No. 182 South Second street, owned by John McCullough. Cause, boy set fire to a bed. Loss trivial.

Oct. 10. (Still.) Chimney fire in house corner School and Seventh streets, owned by John R. Thornton and occupied by Mrs. Lucy Leonard. No loss.

Oct. 20. Box 56. Alarm caused by sight of smoke pouring out of windows of Philias Roy's house on South Water street, occasioned by pan of meat burning. Companies responding: Engines 4 and 6, Hook and Ladder 1 and Hose 1. Alarm given by citizen. No loss.

Nov. 5, midnight. (Still.) Fire in house northeast corner of Pine and Water streets. Cause, unknown. No loss.

Nov. 6, 9 A. M. Box 6. Fire in house No. 206 State street, owned and occupied by M. Riley. Cause, articles of clothing on horse catching fire from stove. Companies responding: Engines 1 and 5, Hook and Ladder 2 and Hose 2. Alarm given by citizen. Loss trivial.

Nov. 8, 5 30 P. M. Box 48. Fire in house on South Front street. Caused by child pulling lamp from table. Companies responding: Engines 4 and 6, Hook and Ladder 1 and Hose 1. Alarm given by citizen. Loss slight.

Nov. 9. Box 125. Fire in building owned by Wamsutta Mills Corpo. and occupied by several tenants. Cause, explosion of lamp. Companies responding: Engines 1 and 5, Hook and Ladder 2 and Hose 2. Alarm given by citizen. No loss.

Nov. 10. Box. 27. Chimney fire in house rear of Middle street, between Second street and Acushnet avenue. Companies responding: Engines 2 and 4, Hook and Ladder 1 and Hose 1. Alarm given by citizen.

Nov. 18, 11 A. M. (Telephone.) Fire in house of Hon. Morgan Rotch. Cause, sparks from chimney. Extinguished by men from No. 4 engine house. No loss.

Nov. 19. (Telephone.) Fire in J. F. Knowles' dry goods store. Caused by sawdust and dirt in one of the furnace flues. Extinguished by men from Central engine house. No loss.

Nov. 25. (Still.) Fire in house west side of Water street, near Blackmer street. Caused by electric light wires getting out of order. Extinguished by men from No. 6 engine house. No loss.

Nov. 26. (Still). Chimney fire at house on Acushnet avenue, belonging to heirs of Wm. H. Reynard. Extinguished by men from No. 6 engine house. No loss.

Nov. 28. Chief Macy, with C. Howland Engine No. 4 and men, went to Boston on application from Chief Webber of Boston for assistance.

Dec. 4. (Telephone.) Chimney fire in house of Mrs. John H. Clifford on Orchard street. Responded to by men from No. 4 engine house. No loss.

Dec. 7, 3 P. M. (Telephone.) Fire in house No. 119 South Water street, owned and occupied by David Freeman. Cause, set by little girl. Responded to by men from Central engine house. Loss trivial.

Dec. 19, 7 30 A. M. (Telephone.) Fire in Eddy Building on Union street, occupied by Moynan & Co. Cause, electric wires being crossed. Responded to by men from Central engine house. Loss trivial.

Dec. 20, 7 P. M. (Telephone.) Fire in barn owned by Hon. Morgan Rotch. Cause, incendiary. Responded to by men from No. 4 engine house. Loss on hay, $300. No insurance.

Dec. 27. (Still.) Chimney fire in house of Hon. Walter Clifford on Hawthorn street. Responded to by men from No. 4 engine house. No loss.

Dec. 30. Box 17. False alarm, caused by smoke being seen coming through cupola of Maxfield street school house. Alarm given by citizen. Companies responding: Engines 1 and 5, Hook and Ladder 1 and Hose 1.

The following is the amount of losses by fire in this city for the past thirteen years, together with the amount of insurance on same:

Years.	Loss.	Insurance.
1877,	$26,063.66	$21,528.36
1878,	28,154.46	66,025.00
1879,	9,163.16	54,950.00
1880,	7,609.13	49,450.00
1881,	26,624.96	86,979.00
1882,	23,169.64	692,950.00
1883,	17,398.14	77,450.00
1884,	134.729.82	310,950.00
1885,	6,982.41	148,025.00
1886,	26,786.03	1,108,800.00
1887,	45,141.50	708,150.00
1888,	32,881.87	125,927.00
1889,	42,285.71	182,772.00

Fire Alarm Telegraph, 1889.

SUPERINTENDENT.

FREDERICK MACY, Chief Engineer.

ASSISTANT SUPERINTENDENT.

DANIEL D. BRIGGS.

Residence, Engine house, N. W. cor. Bedford and South Sixth streets.

Office, City Hall.

LOCATION OF SIGNAL BOXES.

No. 3.	Lund's Corner.
4.	Acushnet Heights, near reservoir.
123.	Acushnet avenue, near Coffin avenue.
125.	Near gate-house, railroad crossing corner Bowditch and Weld streets.
126.	Cedar Grove and North Front streets.
5.	Linden and Ashland streets.
6.	Hazard and State streets.
7.	Purchase and Franklin streets.
8.	County and Pearl streets.
9.	Wamsutta street and Acushnet avenue.
12.	Shawmut avenue and Durfee street.
13.	Cedar and Locust streets.
14.	Purchase and Willis streets.
15.	Smith and Cedar streets.
16.	County and Hillman streets.
17.	Maxfield street and Acushnet avenue.
18.	Purchase and North streets.
21.	North and Water streets.
23.	Kempton, west of Florence street.
24.	Kempton and Cedar streets.
25.	County and Kempton streets.
26.	Water and Middle streets.
27.	Purchase street and Mechanics lane.

28. Court and Cedar streets.
29. Arnold and Ash streets.
32. Union and Eighth streets.
34. Union and Water streets.
35. Fourth and School streets.
36. Walnut and Water streets.
37. Madison and Orchard streets.
38. Bedford and Sixth streets.
39. Acushnet avenue and Cannon street.
41. Hawthorn and Page streets.
45. Allen and Bonney streets.
46. South Water and Leonard streets.
47. Junction Sixth and County streets.
48. Water and South streets.
51. Dartmouth and Rockland streets.
52. Fourth street, head of Potomska.
56. South Water and Rivet streets.
57. Mosher and County streets.
58. South Water and Cove streets.
*61. Union Street Railway Horse Car Stables.
*62. Grinnell Mill.
*63. Wamsutta Mills.
*64. New Bedford Manufacturing Co.
*65. Hathaway, Soule & Harrington.
*67. New Bedford Cordage Factory.
*68. New Bedford Copper Works.
*71. Pairpoint Manufacturing Co.
*72. George Delano's Sons & Co's Works.
*73. Potomska Mills.
*74. Acushnet Mills.
*75. Morse Twist Drill Company.
*76. City Manufacturing Co.
*81. Howland Mills.
*82. Hathaway Mill.
*85. New Bedford Gas Works.
*91. Bennett Mills.
*92. New Bedford Casket Co.

*Private boxes, only to be rung for fire on the premises.

LIST OF FIRE ALARM KEYS FOR 1889.

1 S. C. Hart.
2 A. C. Tripp.
3 David Moncrief.
4 Engine House No. 1.
5 Geo. A. Bourne.
6 Andrew M. Swift.
7 Silas Dammon.
8 Engine House No. 5.
9 Bates & Howard.
10 H. H. Fisher.
11 Store N. W. cor. Kempton and Cedar.
12 Seth Codding.
13 Returned to Chief Engineer.
14 Engine House No. 2.
15 County Jail office.
16 J. D. Thompson.
17 Chas. Taber.
18 Wm. H. Sherman's stable.
19 Hart & Akin.
20 Henry Taber.
21 Engine House No. 4.
22 Thomas B. Tripp.
23 Greene & Wood Manfg. Co.
24 Cornell's stable.
25 Delano's oil works.
26 B. Dawson.
27 Wm. Hindle.
28 Store N. W. cor. Cedar and Smith.
29 Samuel C. Moore.
30 Edwin Dews.
31 J. B. Ashley.
32 James E. Blake.
33 A. C. Covil.
34 Police.
35 Store N. W. cor. Arnold and Ash.
36 Jireh Swift.
37 J. L. Paddock.
38 Mrs. Joseph Read.
39 E. Anthony & Sons'.
40 Mrs. C. M. Pierce, Jr.
41 Stable, Fourth and Spring.
42 Mercury office.
43 F. C. Bliss.
44 Store S. W. cor. Water and South.
45 A. L. Sylvia.
46 Robinson's oil works.
47 N. W. corner Acushnet avenue and Maxfield street.
48 Denison Bros. N. mill.
49 Police.
50 "
51 "
52 "
53 "
54 "
55 "
56 Chief Engineer's office.
57 House N. W. cor. Water and Rivet.
58 Henry H. Fisher.
59 J. P. Kennedy.
60 Police.
61 B. F. H. Reed.
62 Police.
63 Horace G. Howland.
64 Wm. G. Howland.
65 New Bedford Gas Co.
66 Hastings' coal yard.
67 Chief Engineer's office.
68 L. T. Parlow.
69 P. B. Sherman.
70 A. A. Wood.
71 Police.
72 Fred'k Macy.
73 Geo. H. Bliss.
74 A. H. Howland.
75 Geo L. Brownell.
76 James M. Tripp.
77 Potomska Mills.
78 Police.
79 "
80 "
81 "
82 Rufus A. Soule.
83 Wm. H Sherman.
84 Police.
85 "
86 Wamsutta Mills gate office.
87 Adoniram Negus.
88 Chief Engineer's office.
89 Wamsutta club house.
90 Police.
91 "
92 "
93 "
94 "
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99 Police.
100 "
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116 "
117 "
118 "
119 "
120 D. D. Briggs.
121 Police.
122 E. C. Milliken.
123 Marcus W. Taber.
124 Rodolphus Beetle.
125 Soap factory, cor. Water and Middle streets.
126 Henry T. Wood.
127 Coal pockets, foot of Walnut street.
128 Snell's bakery.
129 A. H. Rhodes.
130 R. S. Lawton.
131 Geo. A. Taylor.
132 L. G. Hewins, Jr.
133 C. S. Paisler.
134 Geo. W. Hillman.
135 Hathaway & Soule's factory.
136 Henry Howard.
137 Mt. Washington Glass Co.
138 A. M. Pierce.
139 F. A. Sowle's mill.
140 S. P. Richmond's bakery.
141 E. H. Martin.
142 Police.
143 Geo. A. Cobb.
144 A. Harrington.
145 E. C. Taber.
146 Chief Engineer's office.
147 Fred'k Macy.
148 Police.
149 "
150 "
151 "
152 "
153 "
154 Police.
155 "
156 Geo. S. Handy.
157 James Wilson.
158 No. 6 Engine House.
159 Geo. W. Parker.
160 House, S. W. cor. Acushnet avenue and Maxfield street.
161 D. Bromley.
162 Thomas Donaghy.
163 Wm. A. Pease.
164 Police.
165 Henry W. Kenyon.
166 Police.
167 "
168 W. F. Wheaton.
169 T. B. Rowe.
170 Store. cor. Allen and Dartmouth.
171 Geo. F. Luscomb.
172 Thomas Pelan.
173 Wm. Osgood.
174 Roland Ashley.
175 John H. Lowe.
176 Wm. J. Marr.
177 John Thompson.
178 John Lincoln.
179 L. T. Terry.
180 J. W. Lavers.
181 Chief Engineer's house.
182 Horse car stable, Purchase st.
183 A. H. Mendall.
184 James Davis' store.
185 D. A. Snell's house.
186 Abram Francis.
187 O. G. Brownell.
188 John Wing.
189 Engineer of Steamer No. 6.
190 Chief Engineer's office.
191 T. M. Hart.
192 Jonathan Bourne's house.
193 House 510 Acushnet avenue.
194 Mt. Washington Glass Co.
195 Acushnet Mills.
196 Grinnell Mills.
197 " "
198 Pairpoint Manfg. Co.
199 Grinnell Mills.
200 N. B. Cordage Co.
201 Wamsutta Mills.
202 N. B. Cordage Co.
203 " "
204 " "
205 " "
206 Acushnet Mills.
207 " "
208 Wamsutta Mills.

209 Wamsutta Mills.
210 " "
211 " "
212 Grinnell Mill.
213 N. B. Manfg. Co.
214 Hathaway & Soule.
215 Potomska Mills.
216 Hathaway & Soule.
217 Potomska Mills.
218 " "
219 " "
220 N. B. Manfg. Co.
221 " "
222 " "
223 " "
224 Hathaway & Soule.
225 " "
226 M. T. D. & Machine Co.
227 " "
228 " "
229 " "
230 N. B. Copper Co.
231 " "
232 " "
233 Selmar Eggers.
234 N. B. Copper Co.
235 Delano's oil works.
236 House cor. Hazard and State streets.
237 Pierce & Bushnell Mfg. Co.
238 D. D. Briggs.
239 Geo. W. Hillman.
240 James H. Sherman.
241 Delano's oil works.
242 " "
243 " "
244 Police.
245 "
246 "
247 "
248 "
249 "
250 "
251 John Ward.
252 Louis H. Richardson.
253 N. B. Gas Co.
254 " "
255 " "
256 " "
257 " "
258 " "
259 " "
260 W. K. Wagner.
261 R. S. Taber.
262 Pairpoint Mfg. Co.
263 Geo. B. Wheeler.
264 Mrs. Leonard
265 F. A. Sowle.
266 C. S. Kelley.
267 Horse car stable, Purchase st.
268 Police.
269 "
270 "
271 John Lowe's store.
272 J. M. Lyons.
273 John Lowe.
274 Henry L. Dunham.
275 Wm. F. West.
276 Benj. H. Reed.
277 C. K. Turner.
278 Horse car stable, Purchase st.
279 N. B. & N. Y. Steamship Co.
280 Chas. S. Randall.
281 Police.
282 "
283 "
284 Smith Bros.
285 I. H. Shurtleff.
286 Gate tender's lodge, Wamsutta street.
287 C. O. Andrews.
288 Orphans' Home.
289 J. P. Taylor.
290 Rural Cemetery.
291 Geo. L. Brownell.
292 A. H. Covel.
293 Collamore.
294 Engineer No. 2.
295 O. F. Bly.
296 L. A. Plummer.
297 Dr. Knowles.
298 Edward D. Mandell.
299 F. S. Potter.
300 Loum Snow.
301 Hook and Ladder No. 2.
302 House 83 Dartmouth street.
303 Anthony Hurd.
304 Greene & Wood Mfg. Co.
305 John Smith.
306 Wm. H. Washburn.
307 Horse car stable, Weld street.
308 Bowker & Tripp.
309 Walter Clifford.
310 King Manfg. Co
311 Police.
312 "
313 "
314 "
315 "
316 "
317 Greenwood House.
318 Grinnell's foundry.
319 Opera House office.
320 Brayton's wood yard.

321 Dr. J. C. Shaw.
322 Police.
323 Janitor Opera House.
324 Engineer of Steamer No. 4.
325 H. McDonald.
326 S. C. Lowe's house.
327 Chas. Taber.
328 J. W. Howland.
329 J. H. Platt.
330 H. A. Blackmer.
331 A. B. Kimball.
332 John O'Brien.
333 Mrs. Farley.
334 Levi W. Brawley.
335 Jos. Fredricks.
336 Capt. J. Sherman.
337 W. P. Booth.
338 F. Russell.
339 Police.
340 Howland Mills.
341 " "
342 " "
343 " "
344 City Manfg. Co.
345 " "
346 " "
347 " "
348 John Duff.
349 T. M. Stetson.
350 Police.
351 "
350 C. Gas Co.
351 C. " "
352 Bennett Mill.
353 " "
352 D. Police.
353 D. "
354 N. B. Casket Co.
355 " "
356 Hathaway Mills.
357 " "
358 Morgan Rotch, residence.
359 Chief Engineer's office.
360 " "
361 " "
362 Howland Mills, village.
363 " "
364 " "
365 Gas Co.
366 "
367 N. B. Casket Co.
368 " "
369 Bennett Mill.
370 Hathaway Mills.
371 " "

Location of Hydrants.

Acushnet Avenue.

Southwest corner of Tarkiln Hill road. Post.
West side, south of Tarkiln Hill road 500 feet. Post.
West side, south of Tarkiln Hill road 997 feet. Post.
West side, north of No. Belleville road 600 feet. Post.
West side, north of No. Belleville road 6 feet. Post.
West side, south of No. Belleville road 601 feet. Post.
West side, north of Shaw street 610 feet. Post.
Northwest corner of Shaw street. Post.
West side, north of So. Belleville road 603½ feet. Post.
West side, head of So. Belleville road. Post.
Northwest corner of Nash road. Post.
Northwest corner of Hathaway avenue. Post.
Northwest corner of Davis street. Post.
Southwest corner of Phillips avenue. Post.
Southwest corner of Deane street. Post.
West side, north of Sawyer street 574½ feet. Post.
Southwest corner of Coggeshall street. Post.
Southwest corner of Cedar Grove street. Post.
West side, south of Logan street. Post.
West side, north of Wamsutta street 514 feet. Double.
West side, north of Wamsutta street 372 feet. Post.
West side, south of Wamsutta street 255 feet.
West side, at end of Wall street. Post.
Southeast corner of Pope street.
Northwest corner of Willis street.
West side, south of Campbell street 179 feet.
Northwest corner of Maxfield street.
Northwest corner of Kempton street.
Northeast corner of Elm street.
Northwest corner of School street. Post.
Northwest corner of Madison street.
Northwest corner of Russell street.

Northwest corner of Bedford street.
West side, head of Howland street.
Northeast corner of Potomska street. Post.
West side, north of Rivet 158 feet. Post.
Southwest corner of Blackmer street.

Allen Street.

Southeast corner of Bonney street.
Northwest corner of Ward street.
North side, east of Page street 159 feet.

Arch Street.

Southwest corner of Union.

Arnold Street.

South side, west of Orchard street 96 feet. Post.
Southwest corner of Chancery street.
Southeast corner of Atlantic street.

Ash Street.

Northwest corner of Middle street.
Southwest corner of Morgan street. Double.
Northwest corner of Arnold street.
Northwest corner of Maple street.
Northwest corner of Bedford street. Post.

Ashland Street.

West side, head of Linden street.

Atlantic Street.

West side, north of Arnold street 390 feet. Post.
West side, south of Arnold street 186 feet. Post.

Austin Street.

Southwest corner of Purchase street. Post.
Southeast corner of State street. Post.
Southeast corner of Cedar street. Post.

South side, on west line Wilson street. Post.
Southwest corner of Ashland street. Post.
Southeast corner of Shawmut avenue. Post.

Bedford Street.

Southwest corner of Fifth street. Post.
Southeast corner of County street.
Southeast corner of Orchard street.

Beach Street.

Northwest corner of Kempton street. Post.

Blackmer Street.

South side, east of Front 575 feet. Post.

Bolton Road.

West side, south of Rivet street 1027 feet. Post.
Northwest corner of Poplar road. Post.

Bonney Street.

Northwest corner of Grinnell street.
Northwest corner of Rockland street. Post.

Borden Street.

Southwest corner of Bay street. Post.

Bowditch Street.

West side, north of Cedar Grove street 244 feet. Post.
West side, south of Cedar Grove street 313 feet. Post.
Southwest corner of Weld street. Post.

Bridge Avenue.

North side, west of draw 44 feet.
South side, west of draw 11 feet.

Brownell Street.

West side, north of Union 74 feet. Post.

Campbell Street.

South side, east of County 163 feet. Flush.
South side, east of Emerson street 205 feet.
Southwest corner of Cypress street. Post.

Cannon Street.

South side, east of Second street 164 feet.

Cedar Street.

Northwest corner of Elm street. Double.
Southwest corner of Kempton street.
West side, north of Mill street 75 feet.
Southwest corner of Hillman street.
Northwest corner of Sycamore street.
Southwest corner of Campbell street.
Southwest corner of Parker street.

Cedar Grove Street.

Southeast corner of Front street. Post.
Southeast corner of Howard street. Post.
South side, west of Bowditch street 383 feet. Post.
Northwest corner of Purchase street. Post.
Northwest corner of County street. Post.

Centre Street.

South side, east of Water street 85 feet.

Chancery Street.

West side, north of Parker street 263 feet. Post.
West side, south of Parker street 176 feet. Post.
Southwest corner of Hillman street.
Southwest corner of Elm street. Post.
West side, north of Arnold street 405 feet. Post.

Cherry Street.

Southeast corner of Seventh street.

Chestnut Street.

Southwest corner of North street.
West side, north of Campbell street 96 feet.

Clark Street.

Southwest corner of State street.
South side, 170 feet west of County street. Post.

Clinton Street.

South side, east of Orchard street 125 feet.
South side, west of Ash street 242½ feet. Post.

Coffin Avenue.

Southwest corner of North Purchase street. Post.
South side, opposite Oneko lane. Post.
Southeast corner of Bowditch street. Post.
South side, 347 feet east of Acushnet avenue. Post.

Coffin Street.

North side, east of Water street 262 feet. Post.

Coggeshall Street.

South side, 75 feet west of Rock. Post.
Southwest corner of Front street. Post.
Southwest corner of Purchase street. Post.
Southeast corner of County street. Post.

Commercial Street.

North side, east of Front street 82 feet. Post.

Cottage Street.

Southwest corner of Bay street. Post.
Northwest corner of Allen street.
Northwest corner of Bedford street.
Northwest corner of Hawthorn street.
Southwest corner of Arnold street.
Southwest corner of Union street.
Southwest corner of Kempton street. Post.
Northwest corner of Hillman street.
Northwest corner of Sycamore street.
West side, north of Locust street 263 feet. Post.

Cottage Road.

South side, 435 feet west of Bolton road. Post.

County Street.

West side, north of Coggeshall street 200 feet. Post.
Southwest corner of Penniman street. Post.
West side, south of Clark street 234½ feet. Post.
West side, south of Weld street 115 feet. Post.
Southwest corner of Austin street. Post.
Northwest corner of Locust street. Post.
Northwest corner of Parker street.
Southwest corner of Smith street. Post.
Southwest corner of Maxfield street.
Southwest corner of North street.
Southwest corner of Middle street. Double.
Southwest corner of Morgan street. Post.
Northwest corner of Union street.
West side, head of School street.
Northwest corner of Madison street.
Southwest corner of Hawthorn street.
Northwest corner of Allen street.
Southwest corner of Grinnell street.
West side, head of South street.
Northwest corner of Rockland street.
Southwest corner of Thompson street. Post.
Northwest corner of Rivet street. Post.
Northwest corner of Winsor street. Post.
West side, north of Division street 71 feet. Post.
Northwest corner of Cove road. Post.

Court Street.

Southwest corner of Orchard street.
South side, head of Cedar street.
South side, head of Emerson street.
South side, west from Park street 304 feet.
South side, head of Jenney street. Post.
South side, east of Reed street 300 feet. Post.
Northeast corner of Ash street. Post.

Cove Street.

South side, east of Water street 487 feet.
South side, west of Water street 334½ feet. Post.
Southeast corner of County street. Post.

Crapo Street.

West side, south of Washington street 343 feet.
West side, south of Rockland street 225 feet.
West side, south of Thompson street 160 feet. Post.

Dartmouth Street.

Southeast side, southwest of Orchard street 110 feet.
Southeast side, southwest of Hickory street 125 feet. Post.
East side, south of Rockland street 260 feet. Post.
East side, south of Thompson street 99 feet. Post.
Southeast corner of Larch street. Post.

Delano Street.

Southwest corner of Water street. Post.
Southwest corner of Acushnet avenue. Post.

Division Street.

Southeast corner of Second street. Post.
South side, west of County street 527 feet. Post.
South side, east of Crapo street 6 feet. Post.

Durfee Street.

Southwest corner of Cedar street. Post.
Southwest corner of Bulloch avenue. Post.
Southwest corner of Shawmut avenue. Post.

Elm Street.

Southwest corner of Pleasant street.
Southwest corner of Summer street.
South side, 43.5 feet west of Florence street. Post.
Southeast corner of Reed street. Post.

Emerson Street.

Southwest corner of Willis street.
Southwest corner of Parker street.

Fifth Street.

Southwest corner of School street. Post.
West side, south of Madison street 245 feet.
Northwest corner of Grinnell street.
Northwest corner of Wing street. Post.

First Street.

Southwest corner of Spring street.
West side, south of School street 109 feet.
West side, south of Howland street 185 feet.
West side, south of South street 255 feet.

Florence Street.

West side, north of North street 180 feet. Post.
Northwest corner of Mill street. Post.
West side, south of Kempton street 126 feet. Post.
Southwest corner of Morgan street. Post.

Forest Street.

South side, west of County street 90 feet.

Foster Street.

Southwest corner of Maxfield street.
Northwest corner of High street.

Fourth Street.

West side, north of School street 106 feet.
West side, south of Madison street 210 feet.
East side, foot of Washington street. Post.
Northwest corner of Rockland street.
West side, south of Potomska street 61 feet. Post.

Franklin Street.

Southwest corner of Pleasant street.
Southwest corner of State street. Post.

French Avenue.

West side, south of Clark's Point road 14 feet.

Front Street.

West side, north of Delano street 191 feet. Post.
West side, south of South street 330 feet. Post.
Southwest corner of Grinnell street. Post.
West side, south of Howland street 268 feet. Post.
Northwest corner of lane head of Merrill's wharf.
West side, south of Commercial street 86 feet.
Southwest corner of Centre street.
Southwest corner of Hazard's wharf.
Southeast corner of Wamsutta street. Post.
West side, south of Logan street 383 feet. Post.
West side, south of Washburn street 319 feet.

Fruit Street.

South side, east of Hemlock street 126½ feet. Post.

Gifford Street.

South side, 274 feet east of Water street. Post.
South side, 700 feet east of Water street. Post.

Grape Street.

South side, west of Lewis street 131 feet. Post.
South side, west of Lewis street 517½ feet. Post.

Griffin Street.

Southwest corner of Second street.

Grinnell Street.

Southwest corner of Orchard street. Post.
South side, east of Crapo street 103 feet.
South side, west of Acushnet avenue 76 feet.

Grove Street.

Southwest corner of Anthony street.

Harmony Street.

Southwest corner of Social street. Post.

Harrison Street.

Southwest corner of Hickory street. Post.

Hawthorn Street.

Southeast corner of Page street.
South side, east of Tremont street 147 feet. Post.
Southwest corner of Brigham street. Post.
South side, west of Brigham street 301 feet. Post.

Hazard Street.

South side, west of State street 140 feet.
Southwest corner of Pleasant street.

Hicks Street.

South side, east of Acushnet avenue 276 feet. Post.

High Street.

South side, east of Acushnet avenue 43 feet.
South side, east of County street 177 feet.

Hillman Street.

Southwest corner of Second street.
Southeast corner of Hill street.

Howland Street.

Northeast corner of Second street.

Irving Court.

North end of court.

James Street.

West side, south of Union 102½ feet. Post.

Katherine Street.

South side, 212½ feet east of Crapo. Post.

Kempton Street.

Southwest corner of Pleasant street. Post.
South side, head of Hill street.
Southwest corner of Summer street.
Southwest corner of Emerson street.
Southwest corner of Park street.
Southwest corner of Liberty street.
Southeast corner of Jenney street.
South side, west of Hunter street 50 feet. Post.
Southwest corner of Francis street. Post.

Kilburn Street.

North side, east of Front street 244 feet. Post.
North side, east of Front street 581 feet. Post.

Liberty Street.

West side, south of Kempton street 339 feet.

Lincoln Street.

West side, south of Union street 171 feet.

Linden Street.

South side, west of State street 13½ feet. Post.
South side, west of County street 169 feet. Post.
South side, west of Reynolds street 67½ feet. Post.
South side, east of Ashland street 6½ feet. Post.

Lindsey Street.

West side, south of Kempton street. Post.
Northwest corner of Morgan street. Post.

Locust Street.

Southwest corner of Chestnut street. Post.
Southwest corner of Richmond street. Post.

Logan Street.

Southwest corner of Acushnet avenue.
South side, east of Acushnet avenue 400 feet.
Southwest corner of Front street.

Lombard Street.

West side, south of Rockland street 209½ feet. Post.

Madison Street.

Southwest corner of First street.
Southwest corner of Sixth street. Post.

Maitland Street.

South side, west of Cedar street 305 feet. Post.

Maxfield Street.

Southwest corner of Second street. Post.
Southeast corner of Chestnut street.
Southeast corner of Spruce street.
Southeast corner of Ash street. Post.
Southwest corner of Pleasant street. Post.

Merrimac Street.

Southwest corner of State street. Post.

Mechanics Lane.

North side, east of Eighth street 206 feet.

Middle Street.

Southeast corner of Second street.
Southeast corner of Sixth street. Double.
South side, east of Cedar street 371 feet.
Southeast corner of Chancery street.

Mill Street.

South side, west of Hill street 191 feet.
South side, west of Ash street 45 feet.

Morgan Street.

Southwest corner of Cottage street.

Mosher Street.

South side, west of County street. Post.

Mount Pleasant Street.

Southwest corner of Distributing Reservoir.
West side, north of Durfee street 572 feet.
Northwest corner of Durfee street. Post.

Mount Vernon Street.

South side, west of Mount Pleasant street 359 feet.

Newton Street.

Northwest corner of Elm street. Post.

North Street.

Southeast corner of Second street. Post.
Southeast corner of Acushnet avenue.
Northwest corner of Pleasant street. Post.
Southwest corner of Foster street.
Southwest corner of Park street. Post.
Southeast corner of Newton street. Post.
Southwest corner of Hunter street. Post.

Oak Street.

South corner of Harrison street. Post.

Ocean Street.

West side, south of Arnold street 184½ feet. Post.

Old Point Road.

West side, east of French avenue 650 feet.

Orchard Street.

West side, head of Madison street.

Page Street.

West side, 429½ feet south of Hawthorn street. Post.

Park Place.

South side, west of Sixth street 306 feet.

Park Street.

West side, south of Kempton street 339 feet. Post.
Northwest corner Court street. Post.
West side, north of Arnold street 263 feet. Post.

Parker Street.

Southwest corner of Summer street.
South side, at Oak Grove Cemetery. Post.

Pearl Street.

Southwest corner of Pleasant street. Post.

Pine Street.

Northwest corner of Cross street.

Pleasant Street.

Southwest corner of Market street.
West side, north of William street 21½ feet. Post.
East side, opposite Sycamore street. Post.
Northwest corner of Pope street.
Northwest corner of Austin street.
Southwest corner of Linden street.
Southwest corner of Weld street. Post.

Pope Street.

South side, opposite North Oak street.

Poplar Road.

South side, 431 feet west of Bolton road. Post.

Potomska Street.

200 feet east of Prospect street and 91 feet north of south line of Potomska street. Group of three. Post.

Prospect Street.

West side, south of Howland street 157 feet.
Northwest corner of Grinnell street. Post.
West side, north of Potomska street 324½ feet. Post.
Northwest corner of Potomska street. Post.

Purchase Street.

Northwest corner of Dean street. Post.
West side, opposite Oneko Mill. Post.
East side, foot of Clark street. Post.
West side, head of Logan street.
Northwest corner of Merrimac street. Double.
Northwest corner of Pope street.
Southwest corner of Pearl street. Double.
Southwest corner of Campbell street.
West side, north of Maxfield street 343 feet. Double.
Southwest corner of Hillman street. Double.
Southwest corner of Mill street.
Northwest corner of Middle street.
West side, at Central engine house. Post.
Northwest corner of Union street.

Reynolds Street.

Southwest corner of Weld street. Post.
West side, north of Weld street 268 feet. Post.

Rivet Street.

Southwest corner of Second street.
Southwest corner of Bonney street. Post.
Southwest corner of Hemlock street. Post.
Southeast corner of Bolton road. Post.

Robeson Street.

Southwest corner of County street. Post.
Southeast corner of Cedar street. Post.
South side, west of Cedar street 365 feet. Post.
Southwest corner of Ashland street. Post.

Rock Street.

Southwest corner of Washburn street. Post.

Rockland Street.

Southeast corner of Hall street. Post.
South side, west of Orchard street 13 feet. Post.
Southwest corner of Lombard street. Post.

Rounds Street.

Northwest corner of Elm street. Post.

Russell Street.

South side, east of Fifth street 92 feet.
Southwest corner of Sixth street. Post.

Sawyer Street.

Southwest corner of Bowditch street. Post.
Southwest corner of Acushnet avenue. Post.
Southeast corner of Rock street. Post.
North side, 717 feet east of Rock street. Post.

School Street.

Southwest corner of Sixth street. Post.

Second Street.

Northwest corner of Mill street.
West side, south of Elm street 52 feet. Post.
West side, south of Spring street 74 feet.
Northwest corner of Coffin street.
West side, head of Morgan's lane. Post.
West side, north of Grinnell street 61 feet.
West side, north of Potomska street 232 feet. Post.
West side, south of Potomska street 122 feet. Post.
West side, south of Blackmer street. Post.

Seventh Street.

West side, north of Madison street 50 feet.
Southwest corner of Union street. Post.

Shawmut Avenue.

West side, head of Locust street. Post.

Sherman Street.

South side, west of County street 314 feet.

Sisson Street.

West side, south of Court street 120 feet. Post.

Sixth Street.

Northwest corner of Wing street.
West side, north of Grinnell street 194 feet.

Smith Street.

Southwest corner of Chestnut street. Double.
Southeast corner of Spruce street. Double.
Southeast corner of Emerson street.
South side, east of Park street 5 feet. Post.

South Street.

Southwest corner of Acushnet avenue.
Southwest corner of Second street.
Southwest corner of Water street. Post.
Southwest corner of Prospect street.

South Beach Road.

Southwest corner of Bolton road. Post.
South side, 327 feet west of Bolton road. Post.

Spring Street.

Southwest corner of Seventh street.
Southeast corner of Fifth street.
Southeast corner of Acushnet avenue. Post.

State Street.

Northwest corner of Sycamore street.
Southwest corner of Pearl street.

Summer Street.

Southwest corner of Willis street.
Northwest corner of Hillman street.
Northwest corner of North street.

Sycamore Street.

Southwest corner of Thomas street.
Southwest corner of Summer street.
South side, west of Ash street 68 feet.

Taber's Wharf.

South side, north of Union street 36 feet.

Thomas Street.

Northwest corner of Hillman street.

Thompson Street.

South side, east of Hall street. Post.

Tremont Street.

Northwest corner of Maple street. Post.
Southwest corner of Union street. Post.

Union Street.

Southwest corner of Water street. Double.
Southeast corner of Second street.
Southwest corner of Acushnet avenue. Double.
Southwest corner of Sixth street. Post.
Southeast corner of Emerson street. Post.
South side, west of Park street 344 feet. Post.

Walden Street.

Southwest corner of Maxfield street.

Wall Street.

South side, east of Acushnet avenue 165 feet.

Walnut Street.

Northwest corner of Front street. Post.
Southwest corner of Second street.
Southeast corner of Fourth street. Double.
Southwest corner of Seventh street. Post.

Wamsutta Street.

South side, east of Acushnet avenue 285 feet. Double.
South side, west of Front street 372 feet. Post.
South side, west of Front street 200 feet. Post.

Ward Street.

West side, 62 feet south of Bay street. Post.

Washburn Street.

Southeast corner of Acushnet avenue.
South side, west of North Front street 228 feet.

Washington Street.

Southeast corner of Crapo street.
South side, west of Orchard street 102 feet.
Southeast corner of Dartmouth street.

Water Street.

Southwest corner of Hillman street.
Southeast corner of North street. Post.
West side, south of North street 258 feet.
Northwest corner of Middle street. Double.
Southwest corner of Elm street.
West side, north of Centre street 46 feet.
West side, north of School street 22 feet.
Northwest corner of Walnut street.
Northeast corner of City wharf.
Northwest corner of Coffin street.
West side, head of Pine street. Post.
West side, head of Leonard street. Double.
Northwest corner of Howland street.
Northwest corner of Grinnell street.
Northwest corner of Potomska street. Post.
West side, 266 feet south of Potomska street. Post.
Northwest corner of Rivet street. Post.
Southwest corner of Blackmer street. Post.
Northwest corner of Delano street. Post.
West side, head of Gifford street. Post.
West side, south of Division street 285 feet.
Southwest corner of Cove street.

Weld Street.

Southwest corner of State street. Post.

William Street.

Southwest corner of Eighth street.
Southwest corner of Sixth street. Post.
Southeast corner of Acushnet avenue.
Southwest corner of Bethel street.

Willis Street.

Southwest corner of State street.
South side, 65 feet east of Reed's Court. Post.
Southwest corner of Cottage street. Post.
South side, west of Cedar street 200 feet.
Southeast corner of Pleasant street. Post.

Wing Street.

Southwest corner of Fourth street.

Winsor Street.

South side, west of County street 455½ feet. Post.
South side, 77½ feet east of Crapo street. Post.

Total number added during 1889,	15
Number previously in use,	445
Total number now in use,	460

Location of Reservoirs.

Durfee street, southeast corner of Shawmut avenue.
Linden street, northeast corner of Ashland.
Franklin street, southwest corner of State.
Willis street, northeast corner of State.
Campbell street, west side of Purchase.
Smith street, southeast corner of Cypress.
Pleasant street, between Maxfield and Sycamore.
County street, southeast corner of Maxfield.
Pleasant street, southwest corner of North.
Chestnut street, between Mill and North.
Mill street, southwest corner of Purchase.
Kempton street, between Cypress and Cedar.
High street, near northeast corner of Foster.
Middle street, near southeast corner of Purchase.
Middle street, west of grammar school.
County street, front of M. E. church.
North Second street, northwest corner of William.
City Hall square, west of hall.
Court street, near head of Orchard.
Union street, southwest corner of County.
Union street, southeast corner of Fourth.
School street, northwest corner of Fourth.
South Second street, northwest corner of Walnut.
South Sixth street, northwest corner of Walnut.
Orchard street, east side, below Hawthorn.
Russell street, between County and South Sixth.
Acushnet avenue, southeast corner of Cannon.
Bedford street, southeast corner of Fifth.
South Sixth street, southwest corner of Wing.
Acushnet avenue, southeast corner of Grinnell.
Washington street, northeast corner of Crapo.

Inventory of City Property

IN POSSESSION OF THE FIRE DEPARTMENT AND IN USE, JANUARY 1, 1890.

BUILDINGS, APPARATUS, ETC.

6 brick engine houses.
1 wooden engine house.
6 steam fire engines.
1 hand fire engine.
7 horse hose carriages.
3 sleigh hose reels.
1 hand hose carriage.
3 hook and ladder trucks (1 old).
11,650 feet 2½-inch cotton hose.
25 horses.
250 feet hand hose.
10 pairs double harnesses.
9 single harnesses and 1 lead.
33 horse blankets.
8 horse brushes.
8 curry combs.
7 mane brushes.
5 cards.
13 whips.
6 grain chests.
4 feed troughs.
13 pitchforks.
29 pails.
20 brooms.
3 hoes.
1 rake.
20 shovels.
13 pokers.
18 axes.
3 hatchets.
8 iron bars.
30 halters.
6 sets lead bars.
5 leather buckets.
130 chairs.
3 bureaus.
4 sets hay hooks and blocks.
36 door keys.
15 tables.
13 mirrors.
14 bedsteads.
15 mattresses.
17 pillows.
11 pillow cases.
12 sheets.
18 blankets.
15 towels.
15 bedquilts.
11 bedspreads.
79 carpets.
7 clocks.
36 tower ropes.
100 feet hose rope.
4 suction hose ropes.
1 spare hook and ladder pole.
167 firemen's badges.
2 powder-house keys, bag, and fuse.
1 rope for fire hooks.
6 dust pans.
6 dust brushes.
5 floor brushes.
5 scrub brushes.
2 tube brushes.
7 mops.
7 feather dusters.
32 baskets.
4 wood saws.
4 saw horses.
4 grate patterns.
7 step ladders.
11 settees.
4 American ensigns.
41 lanterns.
5 stoves and pipes.
2 spare engine poles.

5 coal hods.
11 brass hydrant connections.
15 iron hydrant wrenches.
28 discharge pipes.
65 discharge nozzles.
59 leading hose wrenches.
38 engine wrenches.
6 jackscrews and bars.
6 work benches.
7 iron vises.
11 oil cans.
10 oil feeders.
4 waste boxes.
6 connections, 2½ to 4½.
1 connection, 2 to 2½.
18 pump leathers, extra.
5 hose troughs.
13 hose brushes.
5 pipes for hand hose.
14 wrench belts.
10 wheel fenders.
1 iron kettle.
2 copper tanks (1 old).
4 watering pots.
12 grain measures.
1 box castile soap.
7 chamois skins.
5 lbs. sponge.
7 wagons with poles and shafts.
65 coal baskets.
6 sets blocks and falls.
9 hammers.
7 wagon jacks.
28 ladders, from 10 to 65 feet.
8 fire hooks and pikes.
2 tube scrapers.
8 ropes (hook and ladder).
3 stands.
12 spittoons.
2 wardrobes.
1 window brush.
1 water cooler.
3 soap dishes.
3 mugs.
6 cold chisels.
4 stable gongs.

SUPPLIES AND MATERIAL ON HAND.

1 waste box.
4 pump leathers, extra.
2 wheel fenders.
5 extra wheels for engines.
1 gate wrench.
11 taps.
4 spare grates. Nos. 1, 2, 4, 5.
1 box fire extinguisher chemicals.
9 fire extinguishers.
1 set horse slings.
1 set sleigh runners.
6 safety valve springs.
5 new couplings, full set.
5 new couplings, half set.
1 grindstone.
1 draw shaver.
1 jack plane.
1 pair rivet cutters.
1 lot patterns for doors, etc.
6 lbs. rubber packing.
1 water test gauge.
2 iron tool boxes.
2 engine heaters.
35 lbs. cotton waste.
3 sets flue tools.
2 cords wood.
20 lbs. cordage.
3 bars harness soap.
10 valve springs.
1 set badge dies.
2 quires emery paper.
3 glass tubes — water gauge.
20 lbs. rock salt.
1 suction strainer.
1 engine spring, No. 3.
2 engine springs, No. 2.
1 tunnel.
1 two-quart measure.
4 tons of hay.
2½ tons of straw.
30 bushels of grain.
4 P. S. ropes.
1 spare steam gauge.
1 set tube expanders.
1 set repairing tools and chest.
1 set relief valve connections.
15 lbs. washer leather.
3 boxes disinfectant.
1 sledge hammer.
1 hand saw.
1 washer cutter.
1 bitstock.
1 pair compasses.
5 brass gauge cocks.
12 new copper tubes.
24 copper rings for leading hose.
1 gate for Steamer No. 2.
1 lb. hemp packing.
13 galls. petroleum oil, and can.
10 galls. sperm oil, and can.
7 galls. neatsfoot oil, and can.
119 feet 4½-inch suction, good.

10 sets new hose coupling.
1 spare axle.
1 machine to put couplings on.
35 tons of Cannel coal.
15 tons of coal for engine house.
5 pounds of rotten stone.
5 spring locks, 30 keys.
1 set weighing scales.
3 tube brushes.
6 scrub brushes.
50 pounds common soap.
24 dozen candles.
1 carpet sweeper.

ENGINEERS' OFFICE FURNITURE.

1 carpet.
1 desk.
1 book case.
1 copying press.
1 table.
1 clock.
6 chairs and cushions.
1 swivel chair.
1 marble top sink.
1 gas drop light.
14 framed pictures.
1 looking glass.
1 city map.
6 towels.
1 comb and brush.
1 broom.
1 dust pan and brush.
1 carpet sweeper.
1 small feather duster.
1 stove, with copper pipe.
2 pieces of oil cloth.
1 coal hod and shovel.
2 foot mats.
2 spittoons.

FIRE ALARM TELEGRAPH AND SUPPLIES.

61 alarm boxes.
24 miles of line wire.
9 bell strikers.
8 15-inch gongs.
1 10-inch gong.
11 7-inch gongs.
3 repeaters.
2 switch boards.
1 repeater switch.
1 battery rack.
191 cups in battery.
1 hydrometer.
1 rubber syringe.
1 thermometer.
3 tapper gongs.
13 church door keys.
371 alarm box keys.
1 copper hand basin.
5 screw drivers.
5 pairs cutting pliers.
1 axe.
1 chemical extinguisher.
2 vises and straps.
2 tool belts.
1 pair pole climbers.
3 gimlets.
1 bit and stock.
2 hammers.
1 monkey wrench.
2 iron bars.
2 extension ladders.
2 sets steel letters.
1 small pipe wrench.
5 tin oiler pans, for bell strikers.
2 shovels.
1 posthole spoon.
2 paint brushes.
1 life line.
1 soldering kettle.
1 iron melting pot for zinc.
1 plaster hook.
1 iron ladle.
1 iron mould for zinc.
1 bull's eye lantern.
13 battery cups, spare.
1829 lbs. sulphate of copper.
250 battery zincs.
20 hangers for zinc.
1331 lbs. iron wire.
45 glass insulators.
12 hook insulators.
35 iron brackets.
2 spare poles.
11 alarm box hinges.
1 alarm box magnet.
1 15-inch gong magnet.
6 old leather fire buckets, date 1829.
3 paper alarm registers.
3 Pierce & Griswold registers.
1 iron tackle block for bell striker.

PROTECTING SOCIETY.

20 rubber covers, 8x12.
5 rubber covers, 8x15.
6 squilges.
4 ladders.
1 piano harness.
175 cover hooks.
2 cartridge boxes.
2 steel hammers.
2 screw drivers and sheaths.

REPAIR SHOP.

1 brick shop.
1 portable forge.
1 set pipe dies and taps, from ¼ to 1 inch.
2 pipe cutters.
1 bench and vise.
1 set pipe dies and taps, from 1¼ to 2 inches.
8 bolt taps.
100 lbs. wrenches.
2 sets tube expanders.
6 files.
3 gross screws.
1 set tap wrenches.
1 large monkey wrench.
1 small monkey wrench.
1 hammer.
1 Stillson pipe wrench, 24-inch.
1 Stillson pipe wrench, 12-inch.
1 Stillson pipe wrench, 8-inch.
150 lbs. nails.
3 cold chisels.
12 file handles.

1890 — CITY DOCUMENT No. 6.

Annual Report

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF NEW BEDFORD,

TOGETHER WITH THE

Superintendent's Annual Report,

For the Year 1889.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS.
1890.

REPORT.

By direction of the School Committee, I submit to our fellow-citizens the following Report for the year 1889.

STATISTICS OF THE SCHOOLS.

I. POPULATION.

The population of the city (census of 1880) was	26,875
The population of the city (census of 1885) was	33,393
School census, May, 1888, (children between 5 and 15 years of age,)	6,208

BY WARDS.

Ward One.	1,964
Ward Two,	703
Ward Three,	649
Ward Four.	457
Ward Five.	753
Ward Six.	1,682
	6,208

The school census was not ordered by the Board for the year 1889. I am compelled therefore to use the statistics of the school census for 1888; these do not show, of course, the increase of school population in the city during the past year.

II. SCHOOLS.

High,	1
Training,	1
Grammar,	4
Primary,	11
Country,	6
Mill,	2
Farm,	1
Total,	26

III. SCHOOL BUILDINGS.

Number buildings owned by the city,	25

ROOMS USED FOR SCHOOL PURPOSES (DAY SCHOOLS).

High,	17
Training,	8
Grammar,	41
Primary,	48
Mill,	2
Country,	9
Farm,	1
Rooms available not used for day schools.	5
Total,	131
Rooms used for both day and evening schools,	20
Rooms used for evening schools only,	2
Rooms used for evening drawing schools,	3
Total,	25

IV. TEACHERS.

Whole number in service, Dec. 20, 1889,		194
As follows:		
High school,	11	
Training school,	20	
Grammar schools,	41	
Primary schools,	50	
Country schools,	8	
Mill schools,	2	
Special teachers,	7	
Temporary assistants,	2	
Evening schools,	53	
Total,		194

V. PUPILS. (DAY SCHOOLS, 1889).

Whole number pupils enrolled of all ages,	5696
Average number pupils belonging,	4220
Average daily attendance,	3925
Per cent. of attendance,	.93
Number of half-days' absence,	107,186
Number cases of tardiness,	12,679
Number cases of dismissal,	13,107
Number cases of truancy reported by teachers,	249
Number cases corporal punishment,	1669
Half-days' absence of teachers,	1000
Number cases tardiness by teachers,	128
Number visits made the schools by Superintendent,	402
Number visits made the schools by committee,	469

EVENING SCHOOLS.

	Boys.	Girls.	
Whole number pupils enrolled, (Fall term, 1889),	847	517	1364
Average number pupils belonging, " "			986
Average nightly attendance, " "			760
Per cent. of attendance, " "			.77
Total nights' absence, " "			10,110
Number cases tardiness, " "			3182
Number visits made by Sup't, " "			16
Number visits made by Committee, " "			51

EVENING DRAWING SCHOOL.

	Boys.	Girls.	
Whole number pupils enrolled, (Fall term, 1889),	86	9	95
Average number belonging,			51
Average nightly attendance,			41
Per cent. of attendance,			.796
Total nights' absence,			229
Number visits made by Superintendent,			0
Number visits made by Committee,			4

PRIVATE SCHOOLS.

	Boys.	Girls.	
Whole number enrolled during year,	1019	1137	2156
Average number belonging during year,			1795
Average daily attendance,			1591
Per cent. of attendance,			.88

The reports show a steady growth in the school population of the city, and a corresponding increase in the enrollment of pupils in the schools, both public and private. The increase in the enrollment is 219; in average daily attendance, 273. The per cent. of attendance for the year is satisfactory in comparison with that of previous years.

There are 28 more teachers' names on the pay-rolls than at the same time last year. The increase is chiefly in the Evening school corps, and in the Training school assistants. These latter, however, do not draw full pay.

A detailed statistical report, giving the attendance by schools and other items of interest, is appended to the Superintendent's Report.

COST OF INSTRUCTION PER SCHOLAR.

The statistics of this table, in conformity to the statute, include hire of teachers, fuel, care of school houses, books furnished by the city and supplies in general, except those from the income of the Howland fund. The basis of computation is the average number belonging to each school. The term "care of school houses," includes only the salaries of janitors.

The cost of maintenance of each scholar in the High school for the year has been	$49.34
Grammar schools:	
Fifth street,	23.69
Middle street,	24.59
Parker street,	22.22
Thompson street,	19.96
Training school (one term),	17.72
Primary schools:	
Acushnet avenue,	15.58
Arnold street (two terms),	10.45
Cedar street,	16.55

Cedar Grove street,	26.59
Dartmouth street,	19.76
Fourth street,	17.17
Grove,	14.72
Kempton street (two terms),	9.13
Linden street,	20.19
Merrimac street,	25.04
Maxfield street,	21.57
Thompson street,	13.18
William street,	21.22
Country schools:	
Acushnet,	21.47
Cannonville,	17.54
Clark's Point,	31.70
North,	21.51
Plainville,	29.28
Rockdale,	25.59
North mill,	35.11
South mill,	39.94
Evening schools:	
Fifth street,	6.10
Parker street,	10.19
Merrimac street,	10.16
Cedar Grove street,	7.21
Central,	13.76
Drawing school,	16.09
The average cost of maintenance of a grammar pupil has been	$22.99
Of a primary pupil,	17.33
Of a pupil in Training school, (one term),	17.72
Of a pupil in a country school,	22.36
Of a pupil in a mill school,	34.08
Of a pupil in an evening school,	7.81
Of a pupil in evening drawing school,	16.09

As has been stated in previous reports, no just comparisons can be instituted, based on this table, as to the degree of economy exercised in the different schools: the circumstances of the various schools are so different. Some schools have a much smaller number of pupils to a teacher than others, and this circumstance greatly increases

the comparative cost per pupil. Still again, the methods of heating some of the school-houses involve a much greater expense for fuel and oversight than is the case with others, with similar results as to the comparative cost.

Respectfully submitted,

WM. E. HATCH,

Secretary.

EXPENDITURES.

The Committee on Expenditures herewith submits its Report for the year 1889, as follows:

RECEIPTS.

Annual and special appropriations:		
For Teachers' salaries,	$81,900.00	
Incidentals (including text-books and supplies and Harrington school furnishings),	31,900.00	
Repairs of buildings (including heating and ventilating Maxfield street school building),	4,750.00	
		$118,550.00

PAYMENTS.

For Teachers' salaries,	$81,663.66	
Incidentals (including text-books and supplies and Harrington school furnishings),	31,618.31	
Repairs of buildings (including heating and ventilating Maxfield street schoo building),	4,626.20	
		117,908.17
Unexpended balance,		$641.83

DOG FUND.

Jan. 1st, 1889.	By balance,	$1,097.17
	Received during the year,	1,043.24
	Total credit,	$2,140.41
	Expenditures for the year,	113.63
Jan. 1st, 1890.	Unexpended balance,	$2,026.78

The sum of $704.22 has been received during the year from non-resident pupils and paid to the City Treasurer, who has placed the same to the credit of unappropriated funds.

During the last decade, the cost of maintaining our public schools has, from year to year, gradually increased, until it has now reached the liberal sum of nearly $118,000. This surely is a generous amount, and one that should command the thanks and gratitude of its beneficiaries. But large as is this expenditure, all indications point to a continued increase in the future. The varied industries of our city are constantly growing, necessitating a large influx of artisans and toilers. The accession to our schools from this source is large, and with that of our native product, the attendance this year was increased six per cent. over that of the year preceding. Another cause for increase of expenses is our evening schools. In 1882 the appropriation for this purpose was $1200; this year the actual amount expended was $8,533.52. But it is needless to dwell farther on this subject; the facts above stated are sufficient to show the result that must inevitably follow, should the growth of our city continue.

VENTILATION.

Recognizing as we do the need of good ventilation in our schools, and desirous as is the committee to obtain this result, knowing also the penalty that the law provides for non-compliance with its mandates as relates to this object, still, it has not been thought wise to experiment to any great extent with the many methods now extant, for the reason that such experiments are costly and of doubtful success. The only modern system of ventilation of which we have any practical knowledge, that gained by actual experience, is the Smead. This

has been placed in two of our school-buildings, — the Harrington and the Maxfield street. It has here proved effective, and we should be glad were the system adopted in others of our schools. But, as the city government is opposed to this method, and has actually refused to appropriate money for its farther introduction, your committee has refrained from urging its demands.

For the information of the Board and others whom it may interest, the Report of the State Inspector of Buildings for this district as to the efficiency of the method of ventilation now in use in the two buildings above mentioned, is here appended.

"*Harrington School, New Bedford.* — This is a new building and is of brick, two stories high, having four school-rooms in each story, and is heated and ventilated by the Smead system (under floor, so called). When inspected, it was found to be doing good work, but the circulation of air in the different rooms was found not to be as uniform as in the Maxfield street school, which is also heated and ventilated by the Smead system. In the Maxfield street school, the fresh air comes in and the foul air passes out at the same end of the room; the fresh-air inlet being in the middle of the partition and about seven feet above the floor, and the foul air passing off through registers in the floor in the corners. In the Harrington building the fresh-air registers are near the corner in each of the rooms, and about seven feet above the floor. The foul-air registers of which there are seven in each room, are placed in the baseboard; three at the opposite end of the room from the fresh-air inlet, and two on each side of the room. The average amount of air being discharged per minute from each room was 15 cubic feet for each scholar. The volume of carbonic acid gas was found to

vary in different parts of the same rooms, from 7.4 to 9.5 volumes to 10,000 volumes of air."

"*Maxfield Street School, New Bedford.* — This is a two-story brick building, having two school-rooms on each floor, and each having a seating capacity for fifty scholars. This building is now heated and ventilated by the Smead system, and is giving the best of satisfaction. When examined, the average amount of air passing out through the foul-air ducts was found to be 32 cubic feet per minute for each scholar. The inflow of fresh air averaged 40 cubic feet per minute for each scholar. There were but two degrees variation in the temperature in different parts of the room. The greatest volume of carbonic acid gas found in any room was 7.4 and the smallest 6.1 volumes to 10,000 volumes of air. There was no material variation from this when taken in different parts of the room."

For the Committee,

J. HOWLAND, Jr.,

Chairman.

SYLVIA ANN HOWLAND EDUCATIONAL FUND.

Balance of income on hand, Jan. 1, 1889,	$1,396.66
Interest for the year,	3,000.00
Total credit,	4,396.66
Expenditures for the year,	2.988.52
Balance on hand, Jan. 1, 1890,	$1,408.14

Disbursements to the several schools and otherwise are as follows:

High school,	$739.63	
Fifth street grammar school,	221.46	
Middle " " "	124.08	
Parker " " "	340.12	
Thompson street grammar school,	97.09	
Harrington training "	265.32	
Thompson street primary school,	48.74	
Linden " " "	18.98	
Merrimac " " "	34.65	
Maxfield " " "	39.45	
Cedar " " "	63.65	
Acushnet avenue " "	32.89	
William street " "	52.50	
Fourth " " "	41.48	
Dartmouth " " "	33.26	
Grove " "	37.63	
Cedar Grove street " "	33.72	
Arnold " " "	7.52	
Kempton " " "	2.30	
Acushnet "	12.00	
Cannonville "	23.98	
North "	36.36	
Clark's Point "	8.74	
Rockdale "	14.61	
Plainville "	33.65	
North Mill "	13.19	
South Mill "	13.94	
Farm "	21.62	
		$2,412.56
Express,		38.62
Care of pianos and organs,		305.25
Pedagogical library,		69.29
Lectures,		46.34
Sewing exhibition, &c.,		15.98
Journal,		2.25
Stock on hand,		98.23
		$2,988.52

Of the many objects for which appropriations have been made this year from the income of the fund, there are two whose importance would seem to demand special mention. These are the pedagogical library and the course of lectures on educational topics. For the first named, the sum of one hundred and fifty dollars has been appropriated, a part of which has already been expended for such books on methods of teaching and kindred subjects, as were deemed best suited to instruct and aid the teachers in their daily work. The library now contains 134 volumes, and it is the desire and intent of the Superintendent with the approval of the Board, to enlarge its field of usefulness by adding from time to time other books of acknowledged merit. To look for any marked results at this early stage of the library's existence would, perhaps, prove disappointing: but judging by the frequent calls that have been made for the books, we feel assured that good and permanent benefits both to teachers and scholars will obtain.

For the lecture course one hundred dollars was appropriated, of which a part has been used. Several addresses on subjects relating to school work were delivered in the hall of the High school by prominent educators, well versed in pedagogical lore, which were replete with good advice and wise suggestion. These meetings were well attended by the teachers and the interest they manifested gave evidence of their desire to possess the views and methods of well-known instructors. The lectures are to be continued, and we believe that much good, both to teachers and scholars, will result therefrom.

For the Committee,

J. HOWLAND, Jr.,

Chairman.

DETAILED STATEMENT

OF THE OUTLAY BY THE SCHOOL COMMITTEE FROM THE INCOME OF THE SYLVIA ANN HOWLAND FUND, FROM JANUARY 1, 1889, TO JANUARY 1, 1890.

BOOKS AND PERIODICALS.

Ambrose, F. M.,	$22.25	
Appleton, D. & Co.,	1.88	
Boston School Supply Co.,	70.20	
Bill, Henry, Pub. Co.,	17.00	
Barnes, A. S. & Co.,	4.38	
Bay State Pub. Co.,	.80	
Chase, W. I.,	11.00	
Educational Publishing Co.,	13.00	
Ginn & Company,	36.00	
Hutchinson, H. S. & Co.,	220.94	
Hatch, Wm. E.,	4.00	
Houghton, Mifflin & Co.,	1.96	
Heath, D. C. & Co.,	24.67	
Inuman, H. S.,	20.00	
Ivison, Blakeman & Co.,	214.25	
Knowlton, D. H. & Co.,	3.20	
Kellogg, E. L. & Co.,	14.25	
Leach, Shewell & Sanborn,	43.32	
Lee & Shepard,	137.84	
Mason, Perry & Co.,	43.68	
Stockin, A. C.,	11.40	
Small, Willard,	6.38	
Taber, Robert W.,	11.64	
Van Antwerp, Bragg & Co.,	8.40	
The Writers' Pub. Co.,	2.00	$944.44

PEDAGOGICAL LIBRARY.

Boston School Supply Co.,	$1.12	
Bay State Pub. Co.,	1.60	
Heath, D. C. & Co.,	7.30	
Lee & Shepard,	2.67	
Mercury Pub. Co.,	1.00	
Small, Willard,	51.99	
Silver, Burdett & Co.,	2.71	
Stockin, A. C.,	.90	69.29

LECTURES ON EDUCATIONAL TOPICS TO TEACHERS.

Carson, C. J. R., janitor's service,	$3.00	
Dunton, Dr. Larkin,	13.75	
Lawton, Wm. C.,	2.89	
Metcalf, R. C.,	13.75	
Morgan, Thomas J.,	12.95	46.34

MUSIC DEPARTMENT.

Ditson, Oliver, music books,	$18.75	
Pierce, George, care of pianos and organs,	305.25	
Silver, Burdett & Co., music books,	599.64	923.64

SEWING DEPARTMENT.

Anthony, E. & Sons, advertising sewing exhibition,	$1.16	
Bliss & Nye, sewing baskets,	10.50	
Gardner, T. M., messenger service,	4.25	
Hatch, W. E., mending baskets,	.82	
Haskell & Tripp, sewing materials,	1.20	
Kirby, Wm. A., tables for sewing exhibition,	5.80	
Mercury Pub. Co., advertising sewing exhibition,	1.25	
Sullings, Kingman & Co., scissors,	1.50	26.48

PRIMARY DEPARTMENT.

Ambrose, F. M., language charts,	$24.00	
Anthony, E. & Sons, object and drawing supplies,	3.77	
American Supply Co., object supplies,	1.23	
Boston School Supply Co., reading charts,	78.00	
Bliss & Nye, stone jars,	16 00	
Coffin Bros., model boxes,	38.98	
Interstate Pub. Co., lessons on color,	2.93	
Lawton, Jas. M. Jr., object supplies,	2.25	
Perry, Geo. S., object and drawing supplies,	99.50	266.66

BINDING AND COVERING BOOKS.

Gammons, Lottie M., covering books,	$25.25	
Holden Book Cover Co., book covers,	28.72	
Hutchinson, H. S. & Co., mucilage,	4.00	
Kane, D. J. & Bro., binding books,	52.55	
Merrick, Emma J., covering books,	18.90	
Perry, George S., covering paper,	52.50	
Potter, Frances, covering books,	35.15	
Thornton, Rebecca, covering books,	16.50	233.57

APPARATUS.

Bliss, George H., physical apparatus,	$2.80	
Bliss & Nye, supplies,	1.65	
Bates, Mrs. A. E., roller skates,	.99	
Borden, Chas. F., wood work for apparatus,	7.50	
Carson, C. J. R., services on telescope,	7.00	
Douglass, F. M., corks,	.75	
Eimer & Amend, physical apparatus,	25.59	
Eastern Educational Bureau, fraction box,	10.00	
Ginn & Company, globe,	10.20	
Gage, Alfred P., physical apparatus,	3.50	
Goodnow & Wightman Mfg. Co., physical apparatus,	2.52	
Greeley, E. S. & Co., physical apparatus,	2.35	
Hadley, Frank R., rubber sheathing, &c.,	.75	
McAllister, T. H., gelatine plates,	.50	
Mosher, C. E. E., repairing apparatus,	10.25	
Perry, George S., metric sticks,	4.00	
Purrington & Brown, vases for botany class,	3.30	
Ritchie, E. S. & Sons, physical apparatus,	30.95	
Richter, Geo. H. & Co., neostyles,	31.80	
Sullings, Kingman & Co., supplies,	2.91	
Sherman, C. R. & Son, physical apparatus,	1.44	160.75

MISCELLANEOUS.

Almy, Sarah W., photographs,	$3.00	
Bliss & Nye, carting,	2.00	
Cyclostyle Co., waxed paper and ink,	30.40	
Dews, Edwin, journal,	2.25	
Gardner, T. M., carting,	3.00	
Gray, Chas. A., freight and carting,	9.91	
Hatch & Co., express,	26.85	
Hart, Thomas M., American flags,	25.50	
Heath, D. C. & Co., outline maps,	14.89	
Kellogg, E. L. & Co., blackboard stencils,	2.00	
Lawton, Jas. M. Jr., pictures and framing,	13.65	
Leach, Shewell & Sanborn, number lessons,	2.00	
O. C. R. R. Co., freight,	1.90	
Silver, Burdett & Co., wall maps,	180.00	317.35
		$2,988.52

TEXT BOOKS.

The Committee on Text Books herewith submit the following as their Report for the year 1889.

The cost of books and supplies furnished the several schools in detail for the year 1889 is as follows:

	Books.	Supplies.
High school,	$137.21	$795.95
Fifth street grammar school,	349.20	269.67
Middle " " "	215.05	198.63
Parker " " "	456.52	247.56
Thompson st. " "	66.68	95.50
Harrington training "	106.62	62.65
Acushnet avenue primary school,	34.31	53.38
Cedar street " "	36.84	44.63
Cedar Grove street " "	20.42	47.61
Dartmouth " " "	51.30	49.63
Fourth " " "	26.68	36.46
Grove " "	40.46	35.30
Kempton " " "	13.12	13.69
Linden " " "	45.45	23.71
Merrimac " " "	31.18	36.48
Maxfield " " "	49.25	41.05
Thompson " " "	49.76	56.06
William " " "	17.43	36.19
Arnold " " "	1.30	.09
North Mill "	16.38	6 83
South Mill "	10.97	6.39
Acushnet "	21.09	21.61
Cannonville "	18.13	22.83
Clark's Point "	5.77	6.43
North "	15.68	12.84
Plainville "	5.10	14.06
Rockdale "	17.02	23.03
Cedar Grove street evening "	71.31	34.31
Parker " " "	13.24	10.74
Fifth " " "	40.57	9.94
Merrimac " " "	39.63	5.17
Central " "	3.49	1.07
Evening drawing "		62.23
Farm "	12.55	9.72
Office Supt. Schools,	12.14	26.52
	$2,051.85	$2,417.96

The average cost per pupil in the different departments of the schools has been as follows:

High school,	$2.91
Grammar schools,	1.31
Primary schools,	.44
Mill schools,	.68
Country schools,	.72
Day schools,	.97
Evening schools,	.29

STATEMENT.

Cost of books and supplies purchased during 1889,	$4,540.61	
Cost of books and supplies in stock Jan. 1, 1889,	724.39	
		$5,265.00
Cost of books and supplies charged to schools 1889,	4,469.81	
Cost of books and supplies in stock Jan. 1, 1890,	778.64	
Cash receipts from sale of books, etc.,	16.55	
		$5,265.00

For the Committee,

WILLIAM H. PITMAN,

Chairman.

HIGH SCHOOL — 1889.

Nothing has occurred, during the past year to interrupt the work of the school, and I am pleased to be able to report that it is now progressing very smoothly. The committee has so far succeeded in adjusting the work of the several departments as to leave, to-day, scarcely any just ground for the complaints of overworking the pupils.

While the reorganization of the school was in process, and before the new courses of study were fully established, some of the teachers, naturally and commendably enthusiastic for the development of their own special work, and earnest for results, long desired, but beyond the reach of the old method of teaching, attempted at first, perhaps, to cover more ground than the aptitude of

their pupils and the time at their disposal would allow. For this they certainly should not be held blamable, for much of the detail of the work, as at first outlined, was necessarily tentative, and time alone could determine just how much of it was adapted to our situation. Moreover, the burden of the tasks, self-imposed though it was, rested far more heavily upon the teachers themselves than upon any of the pupils, and was assumed conscientiously, and solely for the benefit of the latter.

The question of overtasking pupils between the ages of fourteen and twenty, in our public schools, is yet an open one, and men and women of intelligence and experience differ in their opinions regarding it. The committee, therefore, may be pardoned for not hastily and arbitrarily limiting the teachers in this respect. Indeed, under the circumstances, such action would have done more harm than good.

It should, however, be borne in mind that these complaints, made year after year, are comparatively few in number, and that they are oftentimes based upon individual peculiarities of mind and temperament, rather than upon defects in the school itself. The great majority of the parents who send their children here for the special purpose of securing an education that will better fit them for the duties of after life, are apparently satisfied with the methods of the school, or, at least, with the intent of the committee and teachers to furnish the best instruction that can be afforded. These, because of their superior number, if for no other reason, have rights which we are bound to recognize in outlining the work of the school, and in establishing its standard of scholarship.

The committee, however, is always willing to listen to complaints when properly made, and ready to give them careful and earnest consideration.

In his report of last year, the Superintendent of Schools,

in referring to the High School, used these words: "It remains but to add, so far as the teaching in all the departments is concerned, that it is marked by an earnestness of purpose and an intelligence of conception on the part of the teachers that bodes well for the future."

When it is remembered that this was written, at the close of the first year in our schools, by one who had had an extended experience in other cities, both as teacher and superintendent, it possesses a value beyond any words that we can offer. The present condition of the school also proves the correctness of his observation. There is to-day, on the part of the great majority of the pupils, a manifest appreciation of these well-directed efforts of the teachers, an evident discernment of the results to be obtained, and a determination to make the best use of the opportunities afforded by the school for advanced instruction. A spirit of work, such as I have never before witnessed, pervades every department.

I agree with the superintendent in ascribing this encouraging condition of the school mainly to the earnest and intelligent efforts of the teachers, and to their peculiar fitness for the work assigned them.

The whole number of pupils enrolled this fall is 347, five less than at the corresponding time of last year. This falling off is attributable mainly, I think, to the small class which entered the school in 1888, the smallest in number in the last five years. The present fourth grade, however, is as large as can be conveniently handled in three sections, and the first grade exceeds in number even that of the preceding year, which was then noted as the largest in the history of the school. Indeed, the size of the present first class made it necessary, at the beginning of the school year, to permanently divide it into two sections, and to seat and occupy another room in the building. The removal of the physical laboratory to the

basement last year gave us the needed room, and a slight addition to the duties of the assistant teacher of English provided ample teaching force.

In June, Miss Mabel Washburn, who for a year had temporarily and satisfactorily filled the position of assistant teacher of English, declined a permanent appointment, and Miss Mabel A. Spooner was elected by the Board to succeed her. Miss Spooner entered upon her duties in September. As a recent graduate from the school, she is familiar with the special work of the department, and will doubtless become a valuable assistant.

The studies of the fourth grade of the classical course have been modified, in accordance with the recommendation in the report of last year, so as to relieve the pupils of what seemed, in view of their aptitude on entrance to the school, an excessive requirement. It will be remembered that, besides the course in Latin, they were required to take all the English, Algebra, and History of the first term of the general course.

The relief has been given in this way. These pupils, now a separate division in the study of history, have two recitations each week, instead of four with the general class as heretofore. These are somewhat differently conducted, and continue only long enough to cover the required ground. The change was introduced at the beginning of the present school year, in September, and has apparently accomplished the desired result.

An increase in the number of optional studies for the first grade is also imperatively demanded. Under the present arrangement, the pupils of this grade, who have not previously elected Latin, French, or German, have no option, but are forced to take the English, Chemistry, and Astronomy, the latter a half-year study followed by Civil Government. This need of more studies has been keenly felt this Fall, for the first time. Especially severe

has it been upon the few, who, having but little aptitude for scientific investigation, are compelled to take two scientific studies, largely depending for their successful pursuit upon previous good work in physics.

In view of the situation, so manifestly oppressive, the committee has voted to add next year English History as a half-year study, to be followed by the Civil Government. These two studies, the one following the other in the last year, will supplement the previous work in general history, and give the school a well-rounded course in this department.

The Astronomy will be assigned to the last instead of the first half of the year as heretofore. It is expected that, in this change, teacher and pupils will find the days and nights of the spring and early summer months more favorable for out-door work.

Such, briefly stated, is the condition of the school today, and the legislation of the committee during the year. Before closing, however, I deem it my duty to call attention again to what I consider a matter of vital importance to the school and its further advancement.

Notwithstanding what has already been said of the progress of the school, and of the commendable spirit manifested by a great majority of the pupils, there is still one difficulty with which we have to contend. It confronts us at almost every step, retards the work, increases the cares and labors of the teachers, and seriously hinders the elevation of the standard of scholarship. It is the inaptitude of many of the pupils for High school work, so far as it relates to the exercise of the powers of thinking and reasoning.

A careful study of the situation has convinced me that the difficulty arises wholly from a lack of proper and adequate preparation. That "the studies of the curriculum are uniformly progressive from the elementary

work of the lowest primary grade to the graduating class in the High school, thirteen annual removes in advance," and that they are "imposed on the pupils throughout the course, one after another, on the common basis of maturity sufficient to attack them intelligently," is, perhaps, true. But what of the methods of teaching employed? Are they as uniformly progressive, and are they imposed on the same basis?

Let us quote from the last annual report of our late Superintendent and see. "For myself," he wrote, "I have uniformly felt that there is truly a gulf between the grammar school and the High school, such as is found in no other connection. There are three recognized stages of development, as is well known — the 'perceptive,' the 'conceptive,' and the 'reasoning.' These supervene very gradually one upon another in the normal order of development, so that there is really no period in the child's progress to maturity at which a marked change occurs in the characteristics of his mental action. And this is as true of his passage from the conceptive to the reasoning stage, as from the perceptive to the conceptive."

"But," he continues, "the methods of study in the High school are so different from those prevailing in the grammar schools as to define quite distinctly the passage of the mind from the conceptive to the reasoning stage."

This language, which so graphically described the situation three years ago, applies with almost equal force to-day. Between the fifth grade in the grammar school and the fourth grade in the High school there is a gulf, the passage of which "distinctly defines the passage of the child's mind from the conceptive to the reasoning stage." Here then, our methods of teaching are evidently at fault. The normal order of development, which naturally supervenes so gradually as to cause no marked change in the characteristics of the mental action of the

mind, has been checked in the grammar school, and the child enters the High school unprepared to take up the line of work required. Either the one department has done too little for its pupils, or the other requires too much.

I, of course, speak from a point of view within the latter. But, it seems to me, the methods of teaching here simply and properly presuppose a capacity to think and reason to a certain extent, and "make demands accordingly." As a matter of fact, however, nearly one-fourth of the time, that should be devoted to the regular work, is spent in developing these powers of the mind. Not altogether unprofitable work, but, under the circumstances, tedious and oftentimes unsatisfactory in results.

I do not consider it within the province of this report to suggest changes in other departments, but simply call the attention of the Board to the matter, and urge the necessity of some action.

It is hardly necessary, in conclusion, to refer to a feature of school life that is now receiving the attention due its importance. The necessity of robust bodies for robust minds is now recognized by educators everywhere. Physical training will, I believe, come in good time, and relieve us of many of the difficulties that now beset us.

For the High School Committee,

JOHN ELDRIDGE, Jr.,

Chairman.

GRAMMAR SCHOOLS.

To criticise the lack of uniformity in the work of our grammar schools would be unjust, but that it exists in our lower grades is a fact, and is due to several causes. First, the absence of a manual in the primary grades places our ninth grades in this position, that each ninth grade is composed of those promoted from the tenth grades of several different schools and the pupils are not all advanced to one common standpoint in these before promotion; consequently the work of the ninth grades is greatly hindered, and the teachers find many times that they are unable to bring their classes to the required point for promotion.

The above is not intended as a criticism upon primary work, for the past year has been an improvement over former years, made so by grade meetings with the Superintendent in which the work of each grade was explained. These meetings do not wholly supply the lack of a manual, but are of great benefit. Our Superintendent has partially prepared the much-needed manual, and is only prevented from completing it by demands upon his time not to be ignored. We hope for largely increased efficiency after its publication. The work in the upper grades in this department has been more uniform during the past year than heretofore owing to the stated meetings of the principals with the Superintendent, and the discussion of methods and other matters which concerned the general work.

There is one other matter that should receive attention, and one that will, we believe, be of great benefit in raising the work of this department to a higher plane: that is a more careful attention to promotions from grade to grade. These at least should be so restricted that careless, indifferent pupils shall not be advanced to the

detriment of the class. If some spur could be applied, we would have classes more evenly prepared and should not hear from teachers the frequent comment now made, "That one or two pupils require so much time I am almost forced to neglect some duties." Perhaps a half yearly promotion for bright, healthy children, or the establishment of a class who could with ease accomplish in two years the work of three, would help matters. This plan may be objected to on the ground of the pupils being overworked, but it has been tried with success in some places, and no such result has been observed.

Many pupils leave our schools after graduation from the grammar department, and it is therefore important that the best teachers shall be employed, and best methods used in these grades.

EXHIBITIONS.

This committee decided not to have exhibitions at the close of the school year, for this reason, — the preparation for them took the time and strength of the pupils and teachers that should have been devoted to the practical work of the schools. In place of exhibitions the committee recommend some simple exercises that shall mark the graduation day, which, with the conferring of diplomas, will be an innovation upon the ordinary school days of the year, and require but little time for preparation. The only argument in favor of exhibitions was that it was parents' day. It would be far more profitable to parents, and would give them a better idea of the working of the schools, if they would visit them occasionally and see daily work. We have, therefore, asked each principal to establish "Visiting Days," when all shall be invited to come and see just the average work of the schools. Parents are earnestly requested to avail themselves of

these invitations, and we know it can but be beneficial to all concerned.

During the past year this committee, after due deliberation, decided to recommend to the full Board the abolishing of recesses in the morning session of the grammar schools. We carefully and systematically went to work to ascertain the results in places where it had been tried, and found it highly recommended without adverse comment. A trial of three months was ordered, and at the end of that time, by order of the full Board, the opinion of both parents and children was obtained by circular. The replies were a fair criticism of the system, and more than ninety per cent. of the children and eighty per cent. of the parents favored its continuance. Your committee intended to be perfectly fair in their investigations both at home and abroad, and gave exact replies with comments. Personal letters and interviews with men of long experience in the matter gave no discouraging feature, on the contrary they said it was a step in the right direction. The items of individual recesses was the principal objections made to its continuance both by members of the committee and persons outside. There was need of reform in this direction, and in accordance with instructions from this committee no child was to be refused permission to leave the room. This privilege was abused, as was anticipated, and the abuse was increased by certain unjust criticisms in our daily papers, made by correspondents no doubt meaning fairness but stating cases that were exceptional and many that were not affected by the no-recess plan. Children read the papers, and took advantage of those criticisms, not using the discretion of older persons. The whole matter is gradually regulating itself, and is at present the only adverse criticism to be made upon the no-recess plan. Its effect upon the health of the children was very carefully investigated in other places and com-

ments of gentlemen of many years' experience as superintendents, members of committees, and practising physicians, were obtained. That the reports were all favorable was a powerful factor in influencing this committee to continue the plan. Probably the strongest of these opinions came from Superintendent Emerson of Newton, who writes that after two years' trial in the City of Newton, the opinion of every physician was obtained, and not one dissented from an opinion that no evil had resulted from the adoption of the plan. That discipline is better, is also a settled fact, and there is a noticeable decrease in corporal punishments in this department, a result much to be desired, and we hope for a further decrease during the coming year. Good feeling between pupil and teacher is promoted, and the continuous work produces better results than with recess and the incidents connected therewith. Had the whole subject been better understood, I think there would have been less adverse criticism. No cause for its abandonment has yet arisen, on the contrary, new developments point to its continuance as the proper thing.

The establishment of a library containing helps in teaching and a course of lectures, both provided by the Howland fund, have been beneficial to our teachers, and they have availed themselves of the privilege offered. Just here, I think a word of praise for our teachers in the grammar schools is due; for although it may seem a stereotyped part of the report of this department, yet it is no less merited, and it can be truthfully said that without exception they have the best interests of the schools at heart, and employ every means at their command to accomplish the desired results.

Hardly a day passes that does not show the necessity for a County Truant School, that would not be strictly a school for boys convicted of crime, but also for incorri-

gibles. It is a pressing need, and one to which the City Council ought to give prompt attention.

We look for greater results each year in drawing, but fully realize that it must be a long time before the course of drawing now in use can produce what it could have accomplished had the lower grades been instructed in it before entering the grammar grades. Good work is being done and satisfactory advancement made. Earnest, faithful work in each grade in all branches of study is the rule, and the schools are rising rapidly to the plane which they ought to occupy.

For the Committee,
ISAAC B. TOMPKINS, Jr.,
Chairman.

PRIMARY SCHOOLS.

Of this department of our public schools there is but little to be said in addition to previous reports.

During the year a very perceptible advance has been made, looking towards a uniform method of teaching,— the lack of which has heretofore proved a hindrance in the way of progress, such as should have been attained, when we consider the unusual facilities possessed by our schools in other ways.

Although the long-desired Manual has not been fully matured, still the methods which it will advocate have in a great measure been put in execution.

A needed reform in the supplementary reading supplied from the "Howland fund," is also nearly or quite completed. In many instances the books now in use are much better adapted to older and more advanced pupils than to the primary grades. What is often termed by the teacher as "poor reading," is rather an impossibility on the part of the scholar to master the book, and for the

very good reason that it is too far beyond his powers. There are books well adapted to the primary grades, and it is hoped that only such will, in the future, be asked for by the teachers, rather than those which are better fitted for the grammar schools.

There is one other improvement, which I cannot forbear mentioning, although it may not seem in the direct line of this report, and yet it is a very important factor in the education of youth. I refer to the system of heating and ventilating introduced into the Maxfield street building. While new to us, it is eminently satisfactory to all concerned in the comfort and health of the pupils, and especially commended by the State authorities having this matter in charge.

During the year the "Harrington school" has been opened, which permitted the present abandonment of the "Centennial" building on Kempton street, and the giving of better accommodation to children properly belonging to the Maxfield street and William street schools.

The schools in the southern portion of the city have been in a somewhat demoralized condition since the commencement of the school year in September last, owing to the enlargement of the Dartmouth street building, which has been prolonged in building far beyond expectation. The children in this district have been cared for as best we could, in a ward room, church vestry, and in a room originally intended for a store. It is hoped that the new building may be completed and ready for occupancy during A. D. 1890. With this school house enlarged, and the contemplated new school house on Division street, to receive the Grove school and the increase in that section of the city, the primary schools will be equipped with room sufficient for their present requirements.

Respectfully submitted,

I. W. BENJAMIN,

Chairman.

COUNTRY SCHOOLS.

This department, as a whole, is in a prosperous condition. Through the past year the Howland fund has supplied an unusual amount of material for the use of these schools, and in various ways their efficiency has been increased.

At the opening of the Harrington Memorial building, the grammar pupils from Cannonville were removed to that school. This made a marked improvement, and it now consists simply of primary grades, which can at any time be removed to that department of the city schools. At Acushnet the classes are also so graded that it remains a country school only in name. The committee are well pleased to have the pupils leave the ancient building for an edifice so much superior in its adaptation to school uses. The attendance at the Point school has increased during the year, and from its location is destined to take an important rank in the near future.

The prevalent idea that a position in a country school is inferior to one in the city, requiring less ability and experience, is plainly erroneous. Often, gathered in one room, are children representing each grade, from the lowest primary to that of pupils preparing for admission to the High school. To discipline such a room, and give to each scholar his due amount of training, requires teaching power and executive ability of a high order. Several cities in this State pay larger salaries to teachers employed in the outlying districts, to compensate for the extra expense and disadvantages incumbent to such positions. We think a liberal policy should be pursued in this department, that the best possible results may be obtained.

For the Committee,

E. P. HASKINS,

Chairman.

THE TRAINING SCHOOL.

The acquiring of knowledge calls into exercise one order of talents; the imparting thereof, those of a very different kind. Though, to a certain extent, the power to teach is a talent, it is, like all other powers, dependent upon cultivation for its development. Our public schools demand educators who are fitted for their work; since these could not be found to any extent in the large number of applicants who, upon examination, proved themselves well educated, a system of training was deemed needful to adapt the teacher to the taught. To this end a Training school was established in September, 1889, in the Harrington school building, as an indispensable part of our public school system of education. This school opened with twenty-four pupil teachers and about three hundred children. Good scholars only are admitted to the school as pupil teachers, and their continuance in it depends upon their manifesting an ability to teach. The school is in charge of experienced teachers, who give instruction in the science and art of teaching, according to a carefully arranged course of study.

The true ends of education are not attained unless instruction be given the child according to his readiness and capacity. Practice, therefore, is needful, that the teacher may be successful. There is no Procrustean bed of knowledge upon which the shorter pupil may be stretched out and the longer one cut off.

The great end of education is mental discipline; but that sort which will develop the mind of one child will starve and dwarf that of another. Since, then, the object of the school is to fit teachers for the work of organizing, governing, and instructing in the public schools, it must cultivate in them a thorough knowledge of the laws which regulate the growth and development of the mental facul-

ties, of the subject matters which are to be taught, and, consequently, of the best methods of teaching.

That one requires practice and training to make a good teacher, is now generally felt and acknowledged. Experience is, at best, the result of experiment, and is often gained at the expense both of time and the child. A large majority of untrained teachers do little more than keep school for the first year.

The report of the Superintendent on the Training school based upon the report of the principal of the school, is so full and complete that should I particularize I should but repeat and endorse what he has so well said.

In visiting the school I have been pleased to find that the means employed are admirably adapted to the ends required; the carefully prepared recitations, made profitable by thorough instruction, cannot fail to make accomplished and successful teachers, fitted to organize, govern, and teach a school.

The school is singularly fortunate in being in charge of teachers who are well qualified, both by nature and cultivation, for their positions. It is safe to predict that the benefits derived from the school will be valuable, decided, and permanent.

Respectfully submitted,

GEO. H. DUNBAR,

Chairman.

EVENING SCHOOLS.

A long felt need has been accomplished in the establishment of a systematic course of teaching for the schools, placing the teachers in a position to perform a definite work, the good effect of which is shown in the marked improvement in the general condition, and in the advance made by the pupils in acquiring knowledge. The employ-

ment of teachers chosen from the corps who do regular service in the day schools, has proved to be of great value, bringing into the work the experience so necessary to successful effort in imparting instruction. It is gratifying to be able to say that, as now conducted, our evening schools afford a better and wider scope for an education than has heretofore been possible. As time goes on, this fact will be more and better appreciated by those for whose benefit these schools are provided.

A most commendable interest in the work has been manifested by the teachers, and what may have been dreaded as possibly an irksome duty, has proven a pleasant task.

The fact comes to us that the beginning of another year will call for increase of accommodation in the south part of our city; and such a need will be met, we trust, cheerfully, and so enable those who have this interest in charge to keep pace with the rapid advance of our city.

For the Committee,

GEO. WM. HILLMAN.

MILL SCHOOLS.

No unusual occurrences are to be chronicled in reporting the condition of the schools of this department. The same efficient teachers who have so faithfully served the city in the past, have carried on the work during the year with their accustomed interest and zeal.

The largest number present at the North school has been 42; the South school has had a larger attendance, there being at the present time an enrollment of 48. In this school the pupils come from English speaking families, with few exceptions, while in the North school about one-fifth of the number is from families where English is not spoken at all. During the spring term, there was so

large a class of pupils entirely unacquainted with our language, that it was judged necessary to place an additional teacher in the school on half time, for about six weeks, to the decided advantage of the pupils, and were the accommodations equal to the needs, we should make an earnest plea for a permanent assistant in this school. The work done here is eminently practical, the teachers studying the needs of the pupils and aiming to meet the wants of individuals, as far as possible. In addition to the ordinary studies, as arithmetic, reading, spelling, writing, simple lessons in geography and composition, sewing is taught and practised an hour a week, with pleasure and profit to the girls, — and in this connection, we would make a plea for the boys, that they may have manual training during the hour. Ideas upon industrial education have been so thoroughly ventilated by educators well qualified to speak upon the subject, that we will not weary you with ideas of our own, but will dismiss the subject with the following extract from an article on this topic: "It is apparent that manual training stimulates the best elements of an upright character. The skillful use of tools and materials in the production of any article, is intimately related to that moral *grit* which will find a means of accomplishing any needful end. The boy acquires in the workshop the habit of overcoming difficulties, and persisting in an undertaking till it is crowned with success. He measures himself by his work, and learns to hold his standard of excellence high."

In view of the fact that the "no recess plan" has been received with so much favor in the community, we would advocate its adoption in these schools; the pupils are of the same ages as those of grammar school pupils, and the reasons which apply in the one case will hold good in the other.

It is pleasant to report that the teachers of these

schools endeavor to impress upon the minds of their pupils a regard for those little courtesies and graces of manner that have been so justly called the minor morals. It is always gratifying to the visitor to observe the result of such teaching. We noticed upon one of our visits, written upon the blackboard, a poem containing some noble sentiment, such as always appeals to the heart of a child. Upon enquiry, we found that very little time could be devoted to the work of studying literature in this way, as the time of the teacher is so fully occupied with the daily routine work. We believe that work of this kind might prove exceedingly valuable. Many of the pupils come from homes where life is hard, where only material advantages are considered, and where refined and elevating influences are wholly wanting. A poem or prose selection, simple enough for the pupils to comprehend, and yet embodying a lofty thought, would do much towards a culture of the heart. In this and kindred ways something may be done towards remedying the defect alleged to exist in our system of education, that the moral and religious training of the pupils is too much subordinated to the mental culture. We would not, however, add another burden to the labors of the teachers, but think that the work could be so apportioned that time might be found for more training in this direction.

These schools appear to be admirably managed, and the relations between pupils and teachers and between the pupils themselves indicate the kind of discipline that is maintained, — discipline in its true meaning, — for as an eminent educator has said, "A school may be in a state of wretched discipline, in which the *order* is complete."

In conclusion, we express the hope that the suggestion made in the last report, in regard to a change of name from "Mill" to "Ungraded schools," be carried into effect.

For the Mill School Committee,

ANNIE R. BORDEN, Chairman.

FARM SCHOOL.

The duties of the Committee on Farm school pertain only to education and discipline in school hours.

The physical and mental care of its pupils are peculiarly allied. The former lies in the province of the Superintendent of the Poor Farm, and with this gentleman your committee has co-operated. The situation, however, is replete with difficulties. Familiarity with the institution gives rise to grave doubts as to its efficiency in the line for which it was created. As a preventive of truancy we will not estimate its agency, but its success in the reformation of its members we question.

The small attendance (averaging during the year eleven) while a subject for congratulation, yet makes the present cost of conducting this school, as compared with others, disproportionate, while the most liberal provision practicable would prove entirely inadequate under the conditions obtaining to-day.

In the membership of this school we have an anomaly — boys, there sentenced for school truancy, to many of whom a continuous school term is preferable to vacation. Boyish nature suggests in this fact unwholesome conditions. What are they? Emphatically worse treatment than is meted out to criminals. These truants, whose youth mitigates their misdemeanor, are confined within a high fence enclosure of about a half-acre. The minimum term of sentence is one year, their daily life that worst monotony — idleness — except in hours of study.

Early in the year the discipline prevailing in the school was, for very ordinary misconduct, confinement in a cell, sometimes for days in succession. This punishment has been abolished, and others modified. A teacher has been placed in charge with instructions to inaugurate a rule of kindness, and under whose management the school has materially improved.

The instruction covers the curriculum of a mixed school, and, considering its disadvantages, is to the satisfaction of your committee.

Co-operation with neighboring cities for the establishment of a county truant school under the provisions of the statute governing such, has been recommended by previous committees, — a recommendation in which your committee heartily concurs. The advantages of such a school in point of care, mental and industrial education, and economy, are obvious.

In April last, at the instigation of this committee, your body submitted to the Honorable the Common Council, its desire in the premises. The matter was by the Council placed on file. Your committee respectfully urges upon the incoming government the necessity of prompt consideration of this question.

Respectfully submitted,

FRANCIS M. KENNEDY,

Chairman.

SEWING.

In submitting our annual report we have to congratulate the School Committee, and each pupil who comes under the supervision of those having this branch of education in charge, that no changes in the corps of teachers have to be recorded. The same watchful care, which has characterized this work from its start, has followed it during the six years it has had a place in our schools. The result is that our pupils show specimens of work in the various departments in which they have been taught which will compare favorably with work found in any city where sewing has been required.

This department of our school work makes but little show, and it is the purpose of those who have its over-

sight to have it conducted in as quiet a manner as possible, and but for the yearly gathering in City Hall, the public would know little of the vast amount of work accomplished. It is in the homes of this city that the benefits are most apparent, since now the daughters are able to make and repair the garments and articles of household use, which in years past fell to the lot of the too frequently overtasked mothers.

In the forty hours, during which it is expected each girl will be occupied with the needle, there was completed two thousand five hundred seventy-five (2575) articles of various kinds, some of them quite elaborate in construction; three thousand two hundred seventy-five (3275) stockings, leggings and mittens darned; and three hundred rents mended.

A part of this work is shown to the public each year, and thus all have ample opportunity not only to see what is done, but to judge of its nature and value.

The only hindrance to perfectly smooth running in this department is the occasional failure on the part of the pupils to be provided with work; but it seems to us as though a little tact and calculation on the part of the mothers, the teachers, and the girls themselves, will easily surmount this obstacle, and we hope to have the co-operation of all to such an extent that the slight friction we have experienced will be overcome.

We have suggested that the work be carried into another school year, so that the teachers can have time to instruct the girls to cut and fit the plain work which we have in school, and it is our opinion if this can be done, that there will be fewer children who will appear in the class with no work prepared.

Respectfully submitted,

BETSEY B. WINSLOW,

Chairman.

MUSIC.

But little is to be said in the way of change in the working of the music department during the past year. The schools in general are fully up to the standard in music, and in almost every instance maintain the efficiency that has characterized them during previous years. Under the direction of Mr. Diman, the efficient teacher and superintendent, with the co-operation of the regular corps of teachers, marked progress has been noted in all the grades. This is more pronounced in the grammar grade. A large number of the pupils in that grade have been under the immediate direction and supervision of the special teacher since their advent into school life, and consequently have received no other musical instruction than that given by him and the assistance received from the regular teachers. The proficiency they show is something remarkable, and will compare favorably with that of other scholars who have been a longer time in school.

At the beginning of the present school year the new Harrington school house was brought into requisition, opening additional rooms, and of course making still greater demands upon the special teacher, who already was pressed for time in which to successfully carry forward his work. Additional rooms were also required to accommodate the needs of the Parker street school, and a portion of the Merrimac street building was utilized for this purpose. These requisitions upon the time of the teacher necessitated a complete rearrangement of the music time table; and after due consideration of the matter, a change commensurate with the demand was made, and a new schedule was formulated, submitted to the Board for approval, and adopted. This new time table is made on a two weeks' basis for the High and the grammar schools,

leaving the matter of special instruction in the Primary and Country schools to the option of the teacher, when such visits should be made, always having in view the necessity of giving his time in these schools when and where it is most needed. In addition to this he is expected to give special instruction to the teachers of these grades occasionally outside of regular school hours; and also to prepare for them lines of work which they can teach in his absence during the time allotted them in the regular school work. By this arrangement the teachers in the Training school are afforded opportunity to acquire a rudimental knowledge at least of music, a qualification demanded by the School Board of every person who designs to become a teacher in the public schools of the city.

No branch of the work is made to suffer by the adoption of this plan (as at a cursory glance might appear to be the case), and with proper care upon the part of the teacher and strict attention upon that of the pupil, the committee sees no reason why the most satisfactory results cannot be attained.

For the Committee,

S. H. SHEPHERD,

Chairman.

DRAWING.

In order to carry out the plan of instruction in Drawing, adopted by this Committee, as well as to provide for the increasing number of pupils in the public schools, it was found necessary, at the commencement of the year, to divide the work in this department, and employ another teacher.

The High and Evening schools were left, as heretofore, to the personal instruction of their special teacher, Mr.

Arthur Cumming. The Grammar and Primary schools were placed in charge of Miss A. B. Hyde, as supervisor, each teacher, under her direction, instructing her own class. This change of plan, as may readily be seen, has involved much care and hard work. That it has had so great a measure of success, thus far, is due to the hearty co-operation of the teachers, as well as to the earnest and intelligent supervision of Miss Hyde. The work of the High school is similar in excellence to that of former years.

The organization of the Evening school was as follows: Principal, and teacher of free-hand drawing, Mr. Arthur Cumming; teacher of mechanical drawing, Mr. George A. Stetson; teacher of geometry, Mr. George A. Nye.

Number of pupils enrolled,	95
Average of pupils belonging,	51
Average attendance,	41

The report of this committee would hardly be complete without an expression of regret for the loss sustained in the resignation of Mr. Drake, who served so long and acceptably in this department.

Respectfully submitted,

HELEN W. WEBSTER,

For Committee on Drawing.

In School Committee,
January 2, 1890.

On motion of Mrs. Webster:

Voted unanimously, That the thanks of this Board are hereby extended to His Honor the Mayor, for the able, just and courteous manner in which he has discharged his duties as its chairman; and that while we congratulate him on his reelection to the office of Mayor, we also congratulate ourselves that he is to be our presiding officer through another year.

On motion of Miss Winslow:

Voted unanimously, That the thanks of this Board are hereby extended to Mr. Isaac W. Benjamin, Vice-Chairman of the Board, for the courteous and impartial manner in which he has presided at the meetings of the Board in the absence of the Chairman.

On motion of Mrs. Borden:

Voted unanimously, That the thanks of the Committee are hereby tendered to the Secretary for the prompt and faithful manner in which he has performed the duties of his office.

NEW BEDFORD HIGH SCHOOL, GRADUATION EXERCISES, JUNE 27, 1889.

PRAYER.

1. SONG, "The Star Spangled Banner."
2. ESSAY, WITH THE SALUTATORY, "Little Dorrit and Maggie Tulliver." Lizzie M. Carr.
3. ESSAY, "Turn, turn, my wheel." Margaret H. Holmes.
4. ESSAY, "The Heroism of Woman." Ada Kelley.
5. ESSAY, "The Merry Times at Weimar." Mary E. Thorpe.

MUSIC.

6. CHORUS, "Farewell to the Forest." (*Mendelssohn.*)
7. THESIS, "Change of Form and Color, as caused by Chemical Action." John H. Holt.
8. ESSAY, "A Few French Poets." Mabel A. Bennett.
9. ESSAY, "Happiness lies more in Action than in Possession," Mary L. Warner.

MUSIC.

10. MOTET, "Ave Verum Corpus." (*Mozart.*)
11. SHAKESPERIAN DIALOGUE, from "Coriolanus."

CAST OF CHARACTERS.

CAIUS MARCUS CORIOLANUS,	*William F. Turner.*
JUNIUS BRUTUS, } tribunes of the people,	*Raymond A. Robbins.*
SICINIUS VELUTUS, } tribunes of the people,	*Horace Carpenter.*
MENENIUS AGRIPPA, friend to Coriolanus,	*Charles G. Akin.*
COMINIUS, General against the Volscians,	*James O. Thompson, Jr.*
TULLUS AUFIDIUS, General of the Volscians,	*Edward H. Cook.*
AEDILE,	*Leon C. Potter.*
CITIZENS,	*Sylvester E. Donovan.*
	H. Winfred Goff.
	William E. James.
	Albert D. Milliken.
	Robert E. Washburn.
VOLUMNIA, mother to Coriolanus,	*Mary Conway.*
VIRGILIA, wife to Coriolanus,	*Lydia T. Paige.*
VALERIA, friend to Virgilia,	*Lillie I. Shirley.*

MUSIC.

12. CHORUS, "The Castle." (*Schumann.*)

13. ESSAY, "Mathematics." Mary L. Hillman.

14. VERSION, "An Homeric Spy." Irving N. Tilden.

15. ESSAY, "The Battle of Gettysburg." Carrie E. Footman.

MUSIC.

16. GLEE, "Hail, Smiling Morn." (*Spofforth.*)

17. PRESENTATION OF DIPLOMAS, By Hon. Walter Clifford.

18. PARTING SONG. Words by Miss Hursell. Music by Mr. Goff.

Classmates, we to-day must sever
Ties that bind us strong and firm;
We must leave our books and school-work
For life's harder, longer term.

We must bid farewell forever
To the joys we here have had;
We must part, too, from each other,
Though the thought e'en makes us sad.

With the past so clear before us,
Let the future be begun;
Let each one perform his life work,
Till the race at length be run.

In that land where God is sovereign,
Free from sorrow, care, and pain,
"Eighty-nine" shall be united,
One unbroken, burnished chain.

19. ESSAY, WITH THE VALEDICTORY, "Two Women from Shakespeare." Lizzie B. White.

GRADUATES.

Charles Gardner Akin,
Allen Crocker Arey, Jr.,
Gilbert Bates Borden, 2d,
William Penn Briggs, Jr.,
Horace Carpenter,
Edward Hudson Cook,
Sylvester Edward Donovan,
Hiram Winfred Francis Goff,
John Howland Holt,
William Edgar James,
Albert Darling Milliken,
Albert Browne Peirce,
Leon Cookman Potter,
Raymond Adams Robbins,
John Campbell Swift,
James Otis Thompson, Jr.,
Irving Niles Tilden,
William Fenderson Turner,
Robert Edward Washburn,
Laura Townsend Barstow,
Mabel Adams Bennett,
Alice Whitney Brock,
Lena Richmond Brownell,
Lizzie May Carr,
Mary Conway,
Jennie Belle Crapo,
Lillian Allen Dexter,
Alice Elizabeth Dugan,
Alice Leach Field,
Olivia O'Brien Folsom,
Carrie Eldridge Footman,
Annie Swain Gifford,
Matilda Sherman Gifford,
Gertrude Hardy,
Lucy Ennis Hillman,
Mary Luther Hillman,
Margaret Hovey Holmes,
Ada Kelley,
Annie Maria Lee,
Annie Estella Luce,
Sarah Elizabeth Moore,
Annie Caroline Olstein,
Lydia Terry Paige,
Ida Francis Parkinson,
Alice Leonard Pasell,
Myra Emma Peckham,
Lucie Davis Perry,
Florence Ashley Poole,
Lillie Inez Shirley,
Lula Agnes Sullivan,
Mary Elizabeth Thorpe,
Eleanor Victoria Tripp,
Mary Lizzie Warner,
Ada Chase Warren,
Elizabeth Brownell White,
Sarah Hedge Whiting.

RECIPIENTS OF CERTIFICATES.

May Montgomery Hursell,
Grace Eaton Thompson.

SCHOOL BOARD—1889.

WALTER CLIFFORD, Mayor, Chairman, *ex-officio*.

ISAAC W. BENJAMIN, Vice-Chairman.

WILLIAM E. HATCH, Secretary and Superintendent.

WILLIAM A. TUCKER, President Common Council, *ex-officio*.

WARD 1—John H. Lowe, Geo. W. Hillman, Anna R. Borden.

WARD 2—Isaac B. Tompkins, Jr., Elmore P. Haskins, Stephen H. Shepherd.

WARD 3—Helen W. Webster, Wm. H. Pitman, Isaac W. Benjamin.

WARD 4—Benj. S. Batchelor, John Eldridge, Jr., Geo. H. Dunbar.

WARD 5—Jonathan Howland, Jr., Frederic A. Washburn, Chas. T. Bonney.

WARD 6—Betsey B. Winslow, Francis M. Kennedy, Frank H. Gifford.

STANDING COMMITTEES.

WM. E. HATCH, Secretary.

ON HIGH SCHOOL—Eldridge, Washburn, Bonney, Howland, Dunbar, Benjamin, Miss Winslow, Batchelor.

ON GRAMMAR SCHOOLS—Tompkins, Washburn, Pitman, Mrs. Webster, Haskins, Mrs. Borden, Shepherd, Howland.

ON PRIMARY SCHOOLS—Benjamin, Miss Winslow, Pitman, Shepherd, Tompkins, Mrs. Borden, Dunbar.

ON COUNTRY SCHOOLS—Haskins, Hillman, Mrs. Webster, Gifford, Kennedy, Lowe.

ON FARM SCHOOL—Kennedy, Bonney, Washburn, Haskins, Gifford, Hillman.

ON MILL SCHOOLS—Mrs. Borden, Tompkins, Howland, Shepherd, Hillman, Mrs, Webster, Lowe.

ON EVENING SCHOOLS—Hillman, Pitman, Mrs. Borden, Haskins, Gifford, Kennedy, Lowe.

ON MUSIC—Shepherd, Pitman, Batchelor.

ON DRAWING—Mrs. Webster, Eldridge, Miss Winslow, Bonney, Dunbar, Howland, Lowe.

ON SEWING—Miss Winslow, Washburn, Benjamin, Shepherd, Mrs. Webster, Mrs. Borden.

ON EXAMINATION OF TEACHERS—Eldridge, Dunbar, Tompkins, Benjamin, Haskins, Mrs. Borden, Hillman, Shepherd, Miss Winslow.

ON TEXT-BOOKS—Pitman, Gifford, Washburn, Hillman, Mrs. Borden, Kennedy.

ON EXPENDITURES—Howland, Benjamin, Dunbar, Pitman, Tompkins, Eldridge, Gifford, Tucker.

ON HOWLAND FUND—Howland, Benjamin, Bonney, Eldridge, Tompkins, Dunbar, Tucker.

ON PAY-ROLLS—Dunbar, Tompkins.

SCHOOL BOARD—1890.

WALTER CLIFFORD, Mayor, Chairman, *ex-officio*.

WILLIAM H. PITMAN, Vice-Chairman.

WILLIAM E. HATCH, Secretary and Superintendent.
Office, 133 William Street.
Office Hours, 8½ to 9 A. M., 12½ to 1 P. M. Saturdays, 9 to 9½ A. M.

WILLIAM A. TUCKER, President of Common Council, *ex-officio*.
Regular Meetings of the Board, first Monday of each month, at 7.30 P. M.

WARD ONE.

Name.	*Place of Business.*	*Residence.*
ANNA R. BORDEN,		Ashland, cor. Austin st.
JOHN H. LOWE,	925 Acushnet avenue,	931 Acushnet avenue.
GEORGE W. HILLMAN,	51 William street,	135 Willis street.

WARD TWO.

THOMAS MACK,	20 Bedford street,	248 Cedar street.
ISAAC B. TOMPKINS, Jr.,	78 Union street,	County street.
ELMORE P. HASKINS,	11 Hillman street,	95 Chestnut street

WARD THREE.

ISAAC W. BENJAMIN,	N. B. Cordage Co's Office, 50 Hill street.
HELEN W. WEBSTER,	Cor. Mill & Purchase sts., Cor. Mill & Purchase sts.
WILLIAM H. PITMAN,	Five Cents Savings Bank, 60 Chestnut street.

WARD FOUR.

GEORGE H. DUNBAR,		179 William street.
ETTA F. MARTIN,	Standard Office,	8 Pleasant street.
JOHN ELDRIDGE, Jr.,	N. B. Cordage Works,	12 Morgan street.

WARD FIVE.

FRED. A. BRADFORD,	20 Bedford street,	342 Union street.
JONATHAN HOWLAND, Jr.		54 Russell street.
FREDC. A. WASHBURN,	Institution for Savings,	10 Maple street.

WARD SIX

THOMAS DONAGHY, Jr,	64 Union street,	103 Acushnet avenue.
BETSEY B. WINSLOW,		315 County street.
FRANCIS M KENNEDY,	183 Union street,	139 Acushnet avenue.

EMMA M. ALMY, Superintendent's Clerk.

HENRY SMITH, Truant Officer.
GEORGE K. DAMMON, Assistant Truant Officer.
Office Hours, 12½ to 1 P. M. Saturdays, 9 to 9½ A. M.

STANDING COMMITTEES.

WM. E. HATCH, Secretary.

ON HIGH SCHOOL—Eldridge, Washburn, Howland, Dunbar, Benjamin, Miss Winslow, Mrs. Webster, Mrs. Borden.

ON GRAMMAR SCHOOLS—Tompkins, Washburn, Pitman, Howland, Mrs. Webster, Haskins, Mrs. Borden, Bradford.

ON PRIMARY SCHOOLS—Benjamin, Pitman, Tompkins, Dunbar, Miss Winslow, Mrs. Borden, Kennedy, Mrs. Martin.

ON COUNTRY SCHOOLS—Haskins, Hillman, Kennedy, Lowe, Donaghy, Mack.

ON TRAINING SCHOOL—Dunbar, Pitman, Tompkins, Benjamin, Eldridge, Washburn, Kennedy.

ON FARM SCHOOL—Kennedy, Washburn, Haskins, Hillman, Donaghy, Bradford.

ON MILL SCHOOLS—Mrs. Borden, Howland, Hillman, Mrs. Webster, Lowe, Bradford, Donaghy.

ON EVENING SCHOOLS—Hillman, Haskins, Kennedy, Lowe, Mrs. Martin, Mack, Donaghy.

ON MUSIC—Washburn, Pitman, Haskins, Bradford, Mrs. Martin.

ON DRAWING—Mrs. Webster, Eldridge, Miss Winslow, Dunbar, Lowe, Mack, Donaghy.

ON SEWING—Miss Winslow, Mrs. Webster, Mrs. Borden, Mrs. Martin.

ON EXAMINATION OF TEACHERS—Eldridge, Dunbar, Tompkins, Benjamin, Washburn, Haskins, Hillman, Miss Winslow, Mrs. Borden, Mrs. Webster.

ON TEXT BOOKS—Pitman, Washburn, Hillman, Mrs. Borden, Kennedy, Mrs. Martin, Mack.

ON EXPENDITURES—Howland, Benjamin, Pitman, Tompkins, Eldridge, Dunbar, Haskins, Lowe, Tucker.

ON HOWLAND FUND—Howland, Benjamin, Eldridge, Tompkins, Dunbar, Kennedy, Bradford, Tucker.

ON PAY ROLLS—Tompkins, Howland, Mack.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS,

FOR THE YEAR 1889.

Superintendent's Report.

Ladies and Gentlemen of the School Committee:

A regulation of the Board requires that the Superintendent shall annually and at the close of the fall term make to it a written report on the schools, giving the facts of their condition, and offering such suggestions regarding them as he may think desirable. Such a report, the second of my incumbency, I now submit to you. In doing so, allow me to express my thanks for the aid and support that you have accorded me as a Board in the performance of the multifarious duties of the office, also my thorough appreciation of the courtesy and forbearance that each of you has uniformly exercised toward me in our individual relations.

The year past has brought some important changes to the schools: New buildings have been built, — one has been occupied, and two others will soon be ready for occupancy, — giving improved and more healthful quarters for pupils and teachers; a training school for teachers has been established and is now in successful operation; the morning recess in the grammar schools has been abolished; changes have been made in the course of study and in the methods of teaching certain branches, and these changes give promise of better results.

The animus of the teaching corps has been most commendable; all its members have shown themselves zealous for the best in thought and method, and, if any have failed

to attain it, the failure to do so cannot be attributed to any evidenced lack of desire to perform their duty faithfully.

The fact that with an increase of enrollment of several hundred pupils in the school during the year the number of days absence has materially decreased, and the other significant fact that with the larger number of pupils the number of cases of corporal punishment has decreased while good order has been maintained, point to better methods of government on the part of the teachers, and a reciprocal good feeling on the part of the pupils.

On the whole, the year must be considered an important one in the history of the schools. It remains to give root to the measures that have been planted, that they may bear the fruit of future success. In this age of changing activities, those who administer the schools must be keenly alive to all the elements of progress in the living world outside, else a disintegration will soon set in within them which will prove fatal to their usefulness.

THE CENSUS.

The census of the school children was not taken the past year. I regret that the Board does not regard this matter of sufficient importance to comply with the statute relating to it. It is a question that does not concern this city alone. The State requires each year a statistical report from each city and town of the Commonwealth. From these reports the State Report is compiled, and that report is of great statistical and educational value. It should be as accurate as possible, and it is incumbent upon every city and town to do its duty in this regard. Again, in a rapidly-growing city like New Bedford, it is impossible to approximate the number of children in the city who are not availing themselves of school privileges,

unless a careful and accurate school census is taken each year. I sincerely hope that the Board will see the necessity of a strict compliance with the statute in the future. The statistics of the school census given in the Secretary's report are necessarily those secured in 1888.

SCHOOL HOUSES.

During the year much has been done in increasing and improving the school accommodations. The Harrington Memorial building, containing eight class rooms and an unfinished hall in the third story, was occupied for the first time at the opening of the fall term. It is situated in the west part of the city, at the corner of Court and Tremont streets. It is heated and ventilated by the Smead system, and, while not meeting all the requirements of the state law relating to ventilation as now exacted, is much better ventilated than most of the school buildings in the city, and that without resorting to the dangerous expedient of opening windows. Although not now quite meeting the state requirements, the system does perform all that the firm guaranteed it to do, and all that the state law required at the time the contract was made. It has been tested by the State Inspector and passed upon favorably. When this building was under process of construction, doubts were expressed as to the necessity for so large a building in that section of the city; but seven rooms are now in use for pupils, and one for a class room for the training teachers. Permission to attend this school has been refused a number of pupils, who live nearer that building than any other, for want of accommodation. The necessary room can only be secured by finishing the hall and using it as a recitation room for the training teachers, leaving the eighth room for the pupils. This I recommend to be done as soon as possible.

At Acushnet, a new building has been built, and will be ready for occupancy about March 1. It contains three large airy rooms, and meets a long felt want. This will furnish ample accommodations for all the pupils in that district. I can but deplore, however, the fact that the method of ventilating this building is not guaranteed to meet the requirements of the statute now in force.

The Dartmouth street school house is being rebuilt, and probably will be ready for occupancy by the beginning of the summer term. The new building will contain six rooms; the old one had four. The rooms will be much larger, and better every way than those of the old. A cellar has been placed under the whole of the structure, by which the healthfulness of the building will be much improved. The building is heated by hot air furnaces, but, as the heating and ventilating flues are arranged, I have grave doubts as to the results of their successful operation, especially in cold weather.

Since the Harrington school house has been built, the Arnold street and the Kempton street buildings have not been used for school purposes. The Arnold street building has been turned over to the city government. The Kempton street building, although still retained in possession by the committee, is totally unfit for school purposes, and should never again be occupied in its present condition. The lot upon which it is situated is a much better one than that occupied by the William street building, and, were a suitable building placed on it, the William street building would be the one to abandon.

Notwithstanding the additions that have been made, pressing need exists for more school room in the south part of the city. This will be true even after the completion of the Dartmouth street school house. A lot has been purchased on Division street, near County, for a new building. Nothing short of an eight room building,

with hall, should be erected. Had the Dartmouth street building been altered into an eight-room rather than into a six-room building, it would have been wise. Many and small buildings are very convenient for the children to attend, but very expensive for any city in the end. They cost more in the aggregate to build, and are maintained by a greater annual expenditure. The schools in the south part of the city have suffered during the past two years from overcrowding, and the Division street building can be built none too soon.

The remaining school houses are in about the same condition as when my last report was made, with the exception of the Maxfield street. This is now the best ventilated school building in the city; is perfectly satisfactory to the state authorities, and is the only one I think that is. This is heated and ventilated by the Smead system. It became necessary during the year to purchase new heating apparatus for the building, and the committee determined, as the change was necessary, to comply with the law relating to ventilation, provided it could be done at a reasonable expense. It was found upon investigation that the owners of the Smead system were the only parties that would guarantee to heat and ventilate the building according to state requirements and at a fair price. For $1250 this four-room building was fitted with the system. It works perfectly, and is spoken of in the highest terms by the State Inspector for this district in his report to Chief Inspector Wade.

In concluding this article, permit me to say that in my opinion this statute relating to ventilation is one that will remain in force, and that it will be enforced more strictly each year. Therefore in the interest of true economy alone, leaving out here the question of the health of the pupils and teachers, should not all new school houses be built to meet the requirements of the law and not in such

a manner that they must be altered in the future at great expense, and with serious hindrance to the schools?

THE LAWS RELATING TO THE EMPLOYMENT OF CHILDREN AND THE OPERATION OF THE SAME.

The majority of persons are not aware of the strictness of the laws in this State which relate to the employment of illiterate minors, and of all children under sixteen years of age. Nor is the amount of labor these laws entail upon employers and school authorities known to the public at large, nor the extra expense that has been added in the last two years to the school departments of cities where a large number of illiterates are employed. This Commonwealth is far in advance of any other in its laws relating to compulsory attendance of minors in school, both day and evening. These laws are beneficent in their intent, and, on the whole, are worthy the support of all; yet individual suffering often results. The Legislature has repeatedly refused to give school committees much discretionary power in the matter, fearing, I presume, an abuse of the same were it granted. I have thought best to give in this connection all the laws of the State relating to the employment of minors, hoping that they may come to the notice in this way of many who are more or less interested in their operation, and yet are not familiar with them.

ILLITERATE MINORS.

Chapter 433 of the Acts of 1887 requires that:—

1. Every owner, superintendent or overseer of any manufacturing, mechanical or mercantile establishment who employs, or permits to be employed therein, a minor under fourteen years of age who cannot read and write in the English language, except during the vacation of the public schools in the city or town where such minor lives, and

every parent or guardian who permits such employment, shall, for every such offence, forfeit not less than twenty nor more than fifty dollars, for the use of the public schools of such city or town.

2. Every person who regularly employs, or permits to be employed, a minor fourteen years of age, or over, who cannot read and write in the English language, providing such minor has been, since reaching the age of fourteen, for one year continuously a resident of a city or town in this Commonwealth wherein public evening schools are maintained, and is not a regular attendant of a day or evening school, shall, for every such offence, forfeit not less than fifty nor more than one hundred dollars, for the use of the evening schools of such city or town.

3. Whenever it appears that the labor of any minor who would be debarred from employment under section two of this act, is necessary for the support of the family to which said minor belongs, or for his own support, the School Committee of said city or town may, in the exercise of their discretion, issue a permit authorizing the employment of such minor within such time or times as they may fix, and the provisions of said section two shall not apply to such minor so long as said permit is in force.

4. Two weeks next before the opening of each term of the evening schools, the school committee shall, by posters posted in three or more public places of said city or town, give notice of the location of said schools, the date of the commencement of the term, the evenings of the week during which said schools shall be kept, the provisions of section two of this act as to forfeiture for non-compliance with said section, and such regulations as to attendance as they shall deem proper.

AN ACT

TO AMEND AN ACT RELATING TO THE EMPLOYMENT OF MINORS WHO CANNOT READ AND WRITE IN THE ENGLISH LANGUAGE.

Section two of chapter four hundred and thirty-three of the acts of the year eighteen hundred and eighty-seven is hereby amended as follows: In the eighth line thereof, after the word "day," by striking out the words "or evening" and by adding after the word "school" in the same line the following words:—Or has not attained an attendance of seventy per cent. or more of the yearly session of the evening school, — so that the section as amended shall read as follows: — SECTION 2. Every person who regularly employs, or permits to be employed, a minor fourteen years of age, or over, who cannot read and write in the English language, providing such minor has been, since reaching the age of fourteen years, for one year continuously a resi-

dent of a city or town in this Commonwealth wherein public evening schools are maintained, and is not a regular attendant of a day school, or has not attained an attendance of seventy per cent. or more of the yearly session of the evening school, shall, for every such offence, forfeit not less than fifty nor more than one hundred dollars, for the use of the evening schools of such city or town. [*Approved March 19, 1889.*

CHAP. 348, ACTS OF THE YEAR 1888.

AN ACT

IN RELATION TO THE EMPLOYMENT OF CHILDREN.

Be it enacted by the Senate and House of Representatives in General Court assembled and by the authority of the same, as follows:

SECT. 1. No child under thirteen years of age shall be employed at any time in any factory, workshop or mercantile establishment. No such child shall be employed in any indoor work, performed for wages or other compensation, to whomsoever payable, during the hours when the public schools of the city or town in which he resides are in session, or shall be employed in any manner during such hours unless during the year next preceding such employment he has attended school for at least twenty weeks as required by law.

SECT. 2. No child under fourteen years of age shall be employed in any manner before the hour of six o'clock in the morning or after the hour of seven o'clock in the evening. No such child shall be employed in any factory, workshop or mercantile establishment, except during the vacation of the public schools in the city or town where he resides, unless the person or corporation employing him procures and keeps on file a certificate and employment ticket for such child as prescribed by section four of this act, and no such child shall be employed in any indoor work, performed for wages or other compensation, to whomsoever payable, during the hours when the public schools of such city or town are in session, unless as aforesaid, or shall be employed in any manner during such hours unless during the year next preceding such employment he has attended school for at least twenty weeks as required by law; and such employment shall not continue in any case beyond the time when such certificate expires. The chief of the district police, with the approval of the governor, shall have authority to designate any kind or kinds of employment in factories, workshops or mercantile establishments as injurious to the health of children under fourteen years of age employed therein, and after one week's written notice from the said chief to the employer or his superintendent, overseer or other agent of such designation no such child shall be employed in any such kind or kinds of employment in any factory, workshop or mercantile establishment.

SECT. 3. No child under sixteen years of age shall be employed in any factory, workshop or mercantile establishment unless the person or corporation employing him procures and keeps on file the certificate required in the case of such child by the following section, and also keeps on file a full and complete list of such children employed therein.

SECT. 4. The certificate of a child under fourteen years of age shall not be signed until he presents to the person authorized to sign the same an employment ticket, as hereinafter prescribed, duly filled out and signed. The certificate and the employment ticket shall be separately printed, and shall be in the following forms respectively, and the blanks therein shall be filled out and signed as indicated by the words in brackets:—

EMPLOYMENT TICKET, LAW OF 1888.

When [name of child], height [feet and inches], complexion [fair or dark], hair [color], presents a certificate duly signed, I intend to employ [him or her].

[Signature of intending employer or agent].

[Town or city and state].

AGE AND SCHOOLING CERTIFICATE, LAW OF 1888.

This certifies that I am the [father, mother or guardian] of [name of child], and that [he or she] was born at [name of town or city], in the county of [name of county, if known], and state [or country] of [name], on the [day and year of birth], and is now [number of years and months] old.

[Signature of father, mother or guardian.]

[Town or city and date.]

Then personally appeared before me the above named [name of person signing] and made oath that the foregoing certificate by [him or her] signed is true to the best of [his or her] knowledge and belief. I hereby approve the foregoing certificate of [name of child], height [feet and inches], complexion [fair or dark], hair [color], having no sufficient reason to doubt that [he or she] is of the age therein certified.

[Signature of person authorized to sign, with official character or authority.]

[Town or city and date.]

In case the age of the child is under fourteen, the certificate shall continue as follows, after the word "certified":—And I hereby certify that [he or she] can read at sight, and can write legibly, simple sentences in the English language, and that [he or she] has attended the [name] public [or private] day school according to law for [number of weeks, which must be at least twenty] weeks during the year next preceding this date, and that the last twenty weeks of such at-

tendance began [date]. This certificate expires [date, one year later than above date].

[Signature of the person authorized to sign, with official character or authority.]

If attendance has been at a private school, also signature of a teacher of such school, followed by words, — certifying to school attendance.

[Town or city and date.]

In case a child cannot read and write as above stated, the following may be substituted for the clause beginning "and I hereby certify" through to and including the word "language": "and I hereby certify that [he or she] is a regular attendant at the [name] public evening school"; but in such case the certificate shall only continue in force for as long a time as attendance of such child at such evening school is endorsed weekly during the session of such evening school, not exceeding the length of the public school year minus twenty weeks in place of attendance at day school as now provided by law, with a statement from a teacher thereof certifying that his attendance continues regular. If attendance has been at a half-time school, forty weeks of such attendance must be certified to instead of twenty. The foregoing certificate must be filled out in duplicate, and one copy thereof shall be kept on file by the school committee. Any explanatory matter may be printed with such certificate in the discretion of the school committee or superintendent of schools.

Sect. 5. In cities and towns having a superintendent of schools, said certificate shall be signed only by such superintendent, or by some person authorized by him in writing; in other cities and towns it shall be signed by some member or members of the school committee authorized by vote thereof: *provided*, *however*, that no member of a school committee, or other person authorized as aforesaid, shall have authority to sign such certificate for any child then in, or about to enter, his own employment, or the employment of a firm of which he is a member, or of a corporation of which he is an officer or employee. The person signing the certificate shall have authority to administer the oath provided for therein, but no fee shall be charged therefor; such oath may be administered by any justice of the peace.

Sect. 6. The certificate as to the birthplace and age of a child shall be signed by his father if living and a resident of the same city or town; if not, by his mother; or if his mother is not living, or if living is not a resident of the same city or town, by his guardian; if a child has no father, mother or guardian living in the same city or town, his own signature to the certificate may be accepted by the person authorized to approve the same.

Sect. 7. No child who has been continuously a resident of a city or town since reaching the age of thirteen years shall be entitled to

receive a certificate that he has reached the age of fourteen unless or until he has attended school according to law in such city or town for at least twenty weeks since reaching the age of thirteen, unless exempted by law from such attendance. Before signing the approval of the certificate of age of a child, the person authorized to sign the same shall refer to the last school census taken under the provisions of section three of chapter forty-six of the Public Statutes, and if the name of such child is found thereon, and there is a material difference between his age as given therein and as given by his parent or guardian in the certificate, allowing for lapse of time, or if such child plainly appears to be of materially less age than that so given, then such certificate shall not be signed until a copy of the certificate of birth or of baptism of such child, or a copy of the register of its birth with a town or city clerk, has been produced, or other satisfactory evidence furnished that such child is of the age stated in the certificate.

SECT. 8. The truant officers may, when so authorized and required by vote of the school committee, visit the factories, workshops and mercantile establishments in their several cities and towns, and ascertain whether any children under the age of fourteen are employed therein contrary to the provisions of this act, and they shall report any cases of such illegal employment to the school committee and to the chief of the district police or the inspector of factories for the district. The inspectors of factories, and the truant officers when authorized as aforesaid, may demand the names of all children under sixteen years of age employed in such factories, workshops and mercantile establishments, and may require that the certificates and lists of such children provided for in this act shall be produced for their inspection. Such truant officers shall inquire into the employment, otherwise than in such factories, workshops and mercantile establishments, of children under the age of fourteen years, during the hours when the public schools are in session, and may require that the aforesaid certificates of all children under sixteen shall be produced for their inspection; and any such officer, or any inspector of factories, may bring a prosecution against a person or corporation employing any such child, otherwise than as aforesaid, during the hours when the public schools are in session, contrary to the provisions of this act, if such employment still continues one week after written notice from such officer or inspector that such prosecution will be brought, or if more than one such written notice, whether relating to the same child or to any other child, has been given to such employer by a truant officer or inspector of factories at any time within one year.

SECT. 9. Every parent or guardian of a child under fourteen years of age who permits any employment of such child contrary to the provisions of this act, and every owner, superintendent or overseer of any factory, workshop or mercantile establishment who employs or

permits to be employed therein any child contrary to the provisions of this act, and any other person who employs any child contrary to the provisions of this act, shall for every such offence forfeit not less than twenty nor more than fifty dollars for the use of the public schools of the city or town. Every parent, guardian, or person authorized to sign the certificate prescribed by section four of this act, who certifies to any materially false statement therein, shall be punished by fine not exceeding fifty dollars, or by imprisonment not exceeding thirty days, or by both such fine and imprisonment. A failure to produce to a truant officer or inspector of factories the certificate required by the provisions of this act shall be prima facie evidence of the illegal employment of the child whose certificate is not produced.

SECT. 10. The expressions "factory" and "workshop" used in this act shall have the meanings defined for them respectively by chapter one hundred and three of the acts of the year one thousand eight hundred and eighty-seven.

SECT. 11. Within one month of the passage of this act the chief of the district police shall cause a printed copy thereof to be transmitted to the school committee of every city and town in the Commonwealth.

SECT. 12. Sections one to six, inclusive, of chapter forty-eight of the Public Statutes, chapter two hundred and twenty-four of the acts of the year eighteen hundred and eighty-three, chapter two hundred and twenty-two of the acts of the year eighteen hundred and eighty-five, and section one of chapter four hundred and thirty-three of the acts of the year eighteen hundred and eighty-seven are hereby repealed.

SECT. 13. This act shall take effect on the first day of July in the year one thousand eight hundred and eighty-eight. [*Approved May 17, 1888.*

Since the passage of these laws relating to illiterate minors the attendance at the evening schools has increased ten-fold. The issuing of certificates from the office and evening schools assumed for a time formidable proportions, and is a constant time-taker. From Aug. 1, 1888 to Dec. 31, 1889, there were issued from the Superintendent's office about eighteen hundred certificates. The issuing of each certificate takes at least fifteen minutes. The total time consumed in issuing the above named certificates was in the aggregate fifty-six days of eight hours each. It can readily be seen that work in the Superin-

tendent's office has been materially increased by these acts. In addition to this, the time of the assistant truant officer and messenger is largely occupied in visiting the mills and enforcing these laws. Beyond this, much time is required of the principals of the evening schools and of the day schools in making out certificates of attendance, of the parents in visiting the Superintendent's office to sign the books, of the employers in making out "employment tickets." The above shows that the enforcement of these laws is no slight matter, and it also shows that they are considered important to the welfare of society or they would not be endured.

It is therefore the duty of all employers of such labor to become fully acquainted with the import and bearing of these laws, and to observe them strictly. The manufacturers and others in the city have generally cooperated with the school authorities in enforcing them, although a few of the overseers have from time to time offended. They have not been prosecuted, but have been warned; and this warning has usually been sufficient to secure the desired result.

It is not my purpose to enter into a defence of the laws, or to criticise in detail their weak points. This article has already taken up too much space. I shall be content if it will lead to a better understanding on the part of the committee and our citizens of the measures the State has taken to prevent illiteracy and gross ignorance in her borders, and more especially how these measures have added to the expense and work of the department.

ATTENDANCE.

The attendance was an improvement on that of the year previous. The number of half days absence decreased 5407; the cases of tardiness decreased 1100. The show-

ing is creditable, and may be attributed to two causes: one, that epidemic diseases have not prevailed to a large extent among the children; the other, the earnest efforts of the teachers to make the school rooms attractive to the pupils. This last is an important factor in securing constant attendance. Firm but kind methods of governing, the infrequent resort to corporal punishment, the interest of the teachers shown daily in the efforts of the pupils, — may their efforts be never so poor, — all have a powerful influence in drawing to the school such pupils as find the ordinary school-room restraints irksome, and who seek opportunity constantly to avoid them. But, while it is encouraging to note a gain in attendance, the question to be considered is, whether all is being accomplished in this matter that can be. The average number of pupils belonging for the year in the High school was 320; the average daily absence was 16.2. The average number belonging in the grammar schools was 1444; the average daily absence was 82.5. The average number belonging in the primary schools was 2129; the average daily absence was 157.6. The average number belonging in the ungraded schools of all kinds was 327; the average daily absence was 29.5. The above items show that with 4220 belonging in all the schools the daily absence averaged 275 pupils. The cases of tardiness and dismissals for each day in the year average 65.8 for the former, 68 for the latter. Sickness, it is true, is the cause for many cases of necessary absence; there are good reasons that may be assigned for many others; yet making all due allowance for these, there are unquestionably many others each day that may be attributed to the fact that many parents do not realize the importance to their children and to the schools of regular attendance, or are persuaded frequently to act contrary to judgment. For the tardinesses, and for many of the cases of dismis-

sal, there is less excuse than for the absences. A master of one of the large schools near Boston, which had about five hundred pupils of all grades from the lowest primary to the highest grammar, told me some years since that when he took charge of the school there were annually about 1400 cases of tardiness; after five years of effort, he had reduced the average to 70 cases each year. These figures seem to me to represent a fair proportion of necessary cases of tardiness in any elementary school to those that are unnecessary. If this assumption is true, much remains to be done in this respect yet, to bring the schools up to the standard. An important duty of the schools is to teach pupils to be constant in the performance of their obligations; the efforts of the teachers to do this surely are worthy the support of parents. If parents then allow their children to feel that they can remain away from school for slight causes, or if they condone cases of tardiness which might have been avoided by a little self-denial or extra effort on the part of the children, they are unconsciously strengthening tendencies in these children which may wreck their future success.

TRUANTS AND INCORRIGIBLES. WHAT SHALL BE DONE WITH THEM?

In my report of last year, I had occasion to remark on the need of a County Truant school for the cities and towns of this county. The committee as a body has expressed itself in favor of such an institution, and the committees of several other places in the county have also taken favorable action in the matter; yet nothing seems more remote than the founding of such a school. It does not seem to be a difficult matter to secure attention for other kinds of public buildings, but in regard to these surprising apathy and even opposition is shown all over

the state by the public officials with whom rests the power to found such institutions. The requests of school authorities for such are tabled, and there they lie to be forgotten, or they are disposed of in some other way, so that usually nothing is the result. The statutes require each city and town of the Commonwealth to provide some suitable place for the care and custody of its truants. It also provides that incorrigible pupils other than truants may be sent to these schools. These provisions are wise, and are made in the interest of the individuals, of the schools, and of the State. The individuals are to be benefited by the exercise in their behalf of such reforming influences while they are under wholesome restraint, as will lead them to see the error of their ways before they become hardened in disobedience to lawful authority: the schools are improved by removing from them unwholesome influences; the state is benefited by the reformation of those whose unchecked course is certain to produce future criminals. The reformation of those who are sent to these schools is certainly, then, an important consideration. This I think will be acknowledged by all. The question that immediately concerns this community is, therefore, is the Truant school of this city reforming the vicious tendencies of those placed in it, or is it calculated to do this under its present conditions? The report of the committee on that school is strong evidence to the contrary. How long is this state of affairs to last? The City of Lawrence maintains a model truant school. If a county truant school cannot be had, in the name of humanity, let something be done to improve our local school. It would be unjust not to acknowledge that the school is in better condition to-day in certain respects than it was a year ago. The teacher now in charge has conducted the school well, and has done all in her power to improve the moral and mental conditions of the inmates, but she is

responsible for them but five hours out of the twenty-four. How are the other hours provided for? It is too well known for me to reiterate. It is no more possible for a healthful moral atmosphere to be obtained under the present conditions surrounding the school, than it is to secure a healthful physical atmosphere in the midst of a miasmatic swamp without clearing away the unwholesome vegetation and draining off the poisonous waters. I feel that I should be derelict in my duty did I not continue to request the board to hold the matter under constant consideration until the proper change is effected. There are but eight inmates of the school at present. There are several truants on probation who may be sent at any time, and several boys who are not truants but come under the class of incorrigibles, who, for the good of the schools, should be sent to some place where their power for harm would be limited; but as things are, nothing is done with them until the last extremity is reached.

The teachers report 249 cases of truancy during the year. No permanent truant officer was elected until September, when Henry Smith was appointed to that office. George K. Dammon is the assistant truant officer, performing also the duties of janitor and messenger at the school committee rooms. One of his chief duties is to visit the mills and mercantile establishments, to see that the laws relating to attendance at school are observed. The statistics given below are the summaries of the reports of those who have acted as truant officers during the year.

TRUANT OFFICERS' REPORTS FOR 1889.

Visits to schools,	1632
Visits to families,	749
Visits to mills,	30
Cards received from teachers,	230
Children interviewed on the street,	723
Children taken from the street to school,	63

Children taken home from the street,	45
Commitments to Truant school,	2
On probation,	1

REPORT OF ASSISTANT TRUANT OFFICER.

Visits to schools,	31
Visits to families,	30
Children interviewed on the street,	38
Commitments to Truant school,	7
Arrested and placed on probation,	1
Committed to care of State Board of Lunacy and Charity,	3
Visits to mills and mercantile establishments,	492

THE SCHOOLS.

Organization. — In organizing any system of schools, many things are to be considered: the buildings, their situation, construction, and furnishings; the apparatus to be used in illustration, and the books both for study and reference; the records and reports; the classification of pupils and intervals of promotion; and above all, the scope of the instruction to be provided. For reasons which will appear farther on, I shall consider here one feature of the organization of our schools, namely, the classification. Our schools are classified into thirteen grades, each grade representing one year of school life. Grade one is the most advanced class in the High school; grade thirteen is the lowest class in the primary schools. The primary schools embrace the first four years of school life, the grammar schools the next five, the High school the last four. Children are not admitted to the schools until they are at least five years of age; if, therefore, a child enters at the minimum age, and is regularly promoted, he is eighteen years old when he graduates from the High school. If he enters at a later age, and without previous instruction, or if he is compelled by sickness or any other good cause to be absent from school for some

months, unless promoted "out of course," the probabilities are that he will not complete the course on account of his advanced age.

I have, therefore, introduced this subject, first, to direct attention to the difference that exists between the classification of our primary and grammar grades, and that of a majority of the large cities in New England. Our primary schools embrace one more year than most of these cities, and the grammar grades one less. This difference in gradation should be borne in mind when comparisons are instituted between the courses of study in our schools and those of these other cities. Second, to consider the subject of special promotions. The first point is of minor importance, the second is vital to the interests of many a pupil in the schools. Under the present plan, there is no regular provision by which pupils of more than ordinary ability, or of maturer minds than the average of their class, are given opportunity for covering the required work in less time than the others; nor can pupils who have been absent half the year, or perhaps a less time, on returning to school, unless they enter the "Mill schools," resume the places they held at the time of leaving, but are forced to repeat a whole year. It is true that a few pupils who receive assistance and encouragement at home may secure more rapid advancement than the majority: sometimes, especially in the lower grades, the teachers push some pupils of quick attainment faster than their class, but there is no organized plan provided for such promotions. What is needed is some system governed by the Board, by which all pupils whose physical and mental condition warrant more rapid advancement than the average can be so advanced, and this without working any injury to them physically or by slighting any study or subjects required in the regular curriculum.

To meet this demand, and to free the schools from the

accusation that "All grist is brought to the same hopper," certain cities provide in their schools for semi-annual promotions, or, what is still better, for special promotions whereby such pupils as have been mentioned are enabled to complete the thirteen years' course in less time than they would be enabled to do by a more rigid system.

I therefore recommend that the Board take this matter under advisement. If provision should be made for special promotions, each case should receive special consideration, and no pupil should be allowed to advance more rapidly than the concurring opinions of teachers, parents, and committee shall deem advisable.

As I have stated before, this is an important question. I see each year pupils who are physically and mentally capable of more rapid advancement than our system now allows plodding along with their inferiors. These pupils waste many precious hours and go forth from the schools sufferers from a system that is not sufficiently elastic to afford all the advantages that it might be made to provide. This question is receiving the attention in some places that is its due. In one small city two years since, nearly four hundred pupils received special advancement during the year, and I am assured that the schools and the individuals were benefited thereby. So valuable a lesson should not go unheeded.

Discipline. — A weakness which is often fatal to the success of some who undertake teaching is inability to govern others. They may be eminently qualified so far as knowledge to be gained from books is concerned, but either from want of will power or of experience, or both, they fail utterly to control those placed in their charge. The qualification that is absolutely necessary for success in teaching is the governing power. This can only be exercised with judgment, when the teacher comprehends the nature and disposition of the pupils, and the effect

upon them of methods of discipline. Much valuable time is wasted each day in many school rooms, because the teachers do not understand the principles of right government, and are constantly called upon to settle issues that should never have arisen, and would not had the proper relations been established between them and their pupils at the beginning.

It is not my intention to enter into a disquisition on the subject of discipline, but I cannot refrain, however, from quoting somewhat freely on this topic from one who has observed widely, and whose book "On Teaching" it would profit every teacher to read. "Discipline," he says, "is subjection to the teacher's authority, in accordance with the order which has been prescribed for educational ends. It must be all-pervading in the work of the school, but not always asserting itself. Silent as the air around them, it must provide for the healthy development of the children for whose life-wants it is adapted. What is wanted is the scene of subjection on the part of the pupils, with as little as possible of the assertion of the teacher." He goes on to say, "The teacher who would establish discipline on a sure basis must decide what is the most potent form of influence, and which ought, therefore, to be the prevailing form in use from day to day. I incline to think this may be decided clearly and finally. The use of the Eye is the basis of power; only after that comes the use of the Voice, or of recognized signs, which may save the need for utterance; and only as a last resort, by all means to be avoided until dire necessity has arisen, punishment."

Regarding the treatment of those special cases of children who, owing to their peculiar or perverted dispositions, occasion teachers so much trouble, he writes as follows, acknowledging at the same time that the power to inflict corporal punishment should be given to teachers to

use in extremity: "Corporal punishment does not afford the direct line to success; a teacher's task is not so simple as this would imply. There is no specific for the cure of all diseases, and there is no single method for correcting all the faults of children. *Faults are not to be put down, but the dispositions from which they originate are to be rooted out and supplanted.* Skill more than force is wanted for this; reflection more than flogging, which might be done by a machine. * * * * Leather may be a useful commodity, but it is not a substitute for thought. Punishment may awaken fear, and fear may help reflection; but everything depends upon the justice of the punishment, and its adaptation to the case. * * * For success in training others there is no easier method than the arduous task of self-government, reflection, and carefully-devised experiments illustrating how those who are younger may become better."

I have quoted at length from this writer, for his conclusions are the same as mine, while his sphere of observation has been much broader. I think that the teachers, as a rule, have labored during the year in the lines indicated above. On the whole their efforts have been attended with success. The order in the majority of rooms has been satisfactory. Corporal punishment has decreased somewhat; flagrant breaches of discipline have not been of frequent occurrence. But there is still cause for just criticism, especially in certain rooms. A few teachers fail to control their pupils sufficiently to secure good results in teaching. In recitation the attention of these classes is not held, while the energy and time of the teachers are wasted in fruitless attempts to secure it. What is the remedy? Evidently these teachers are wanting in the necessary qualifications for teaching the grades where they are. In some cases an improvement might be made by transferring them to different grades than those

in which they do not succeed. One who does have the force to deal successfully with older pupils, may possess the necessary qualifications to manage younger ones; on the other hand, another who does not possess the peculiar ability demanded in handling a primary grade, might do well in a grammar grade. Teachers are often misplaced and are allowed to remain so for reasons that ought not to receive consideration. While it is not an agreeable duty to search these cases to their legitimate conclusion and apply the remedy, it certainly ought to be done. There can be no excuse why hundreds of children should suffer from the incompetency of anyone, and I hope these weak points in our schools may be remedied at the earliest possible opportunity.

Instruction.—Teaching, to be productive of the best results, must be adapted to the mental development of those who are to be instructed. It must be exercised in such a manner that the interest of the pupils shall be awakened and held. Thought must be occasioned in their minds, and they must be led to discover facts for themselves. Their progress ought to be measured by their ability to think and to reason, rather than by the pages covered in text-books; by their power each year to grasp subjects more difficult, not by the ease and fluency with which they recite definitions or mouth words whose significance they do not understand.

In the past, it was no unusual event to find on entering a school-room that the energy of the teacher was directed to filling the mental stomachs of the children with the dry husks of meaningless phrases, which seemed only to befog their brains rather than to stimulate their ideas or nourish their thoughts. To subject pupils for any length of time to instruction that does not stimulate their mental activities and awaken intelligence, tends to dry up in them the very well-springs of knowledge, and to render

barren the mental faculties with which they have been endowed. The object of the "New Education," so called, is to do away with the travesty on teaching that has prevailed in the past, and to replace it with something better. In its creed, it recognizes a science and art of teaching; it bases its methods of instruction on the laws that govern mental growth; it is objective in its operations; its results, when it is rightly applied, are knowledge and truth.

I record with pleasure that many of our teachers are in touch with the progressive educational thoughts of the times; those who have not yet come under its influence must yield to its sway or find themselves bereft of support.

Primary Schools. — Something has been done in the year toward modifying the course of study for primary grades; a syllabus of language work for each grade is now in the hands of the teachers, and the instruction in that branch is improving rapidly. The requirements in reading are now somewhat less for the first three years than heretofore; the general plan is to give a greater quantity of simple reading in each grade rather than to advance rapidly into that which is difficult. With the variety of good reading matter that is furnished from the Howland fund, there is no need of taking advanced books before the classes are really fitted for them, in order to avoid repetition. The work in arithmetic is progressing finely, under the stimulus of the more objective methods adopted something more than a year ago: more attention, too, is being given in the upper grades to working with small numbers in practical application. Drawing is now finding its legitimate function in these grades under the direction of the special teacher in that department. I have been much pleased with the progress made in this branch under her teaching and supervision. The writing continues unsatisfactory, and I sometimes

have doubts whether it can be much improved as long as there is so much written work done in nearly every branch, and perforce hurriedly done. Oral geography, at least, should be taught in these grades; for children to attend school four years and receive no teaching in this study is absurd; beginning with lessons on place, direction, etc., in the lowest grade, pupils by the end of the fourth year, when they enter the grammar schools, should be prepared by a thorough oral course in this branch to take a text-book on it and use it with intelligence. The primary grades of the Training school are taking such a course this year by special permission, and I hope by this time next year oral geography will be taught in every primary school in the city.

The discipline has been generally satisfactory, but is capable of being improved. The cases of whipping and other forms of corporal punishment are still too frequent. But for many of these the teachers are not wholly to blame. If parents would do their duty, the government of schools would be a comparatively simple matter. Mismanagement at home, and encouragement within the children of the spirit of insubordination to lawful authority, are frequently the sources of trouble in school.

The custom which has existed of placing in these schools teachers who had no especial training or preparation for the work, has been a prolific source in the past of poor teaching and bad government. Now that graduates of the Training school are to fill these positions when vacancies occur, it is to be expected that there will be less cause for criticism in the future.

Grammar Schools. — With the exception of the abolition of the morning recess in these grades, and the effect of some feeling which was engendered at the time by the movement, nothing has occurred during the year to disturb the work. The instruction has been characterized

by an earnest purpose on the part of the teachers that has produced good results. The aim has been to do thoroughly what was undertaken; to attempt no more in any study than could be so done; to train the pupils to think and reason, as well as to implant knowledge.

Meetings of the principals have been held frequently for the consideration of questions relating to teaching and government. The utmost harmony has prevailed at these meetings; all have worked together to promote the best interests of the schools, and to bring into proper relation the whole school system. The attendance of the pupils has been much better for the year than for some years past, and the discipline has improved somewhat. With a larger enrollment than the year before, the cases of whipping have decreased in a marked degree, while the order has been at least as good as usual if not better. Viewed from whatever standpoint, these schools wear the imprint of progress.

There is one weakening influence from which they are suffering. I ask the indulgence of the Board for again broaching the subject. It is the condition of the lower grades, resulting from the admission into them of so many pupils who are unfit to do the work of these grades. There is at present too much laxity in these promotions. I willingly accord that teachers ought to be the best judges as a rule whether their pupils are ready for advancement or not; but, with the privilege of acting as judges, responsibility of future results must be attached. If flagrant breaches of judgment are made in this matter, let the blame be placed where it belongs. For the sake of the teachers and pupils, who suffer, may the remedy be soon applied.

Ungraded Schools. — My report on these schools last year was quite full. This year it will be brief. Their general condition is good. They have a few noticeably

weak spots which should be strengthened. The pupils who attend regularly are regularly promoted by grades, while those who attend but a part of the year are allowed to recite with one grade in one branch of study, in another grade in another branch. This is done that the different classes may not be retarded in their work; also that the irregular pupils may get the most while they are in school, and not suffer discouragement by being behind the class with which they recite.

These schools are now visited regularly by the drawing teacher, and the music teacher is to meet the teachers once a month for instruction. These schools, in time, will be brought into line with the graded ones in the special branches.

The demand for illustrative apparatus and reference books, which has been noticeably large during the past year, indicates an awakening on the part of the teachers to higher conceptions of teaching, and to better methods of its application.

The two ungraded schools which are located in the city proper and designated "Mill schools," have had their usual attendance. As those who attend these schools are to a large extent unacquainted with the English language, and are in school but twenty weeks of the year, one teacher can do justice to no more than thirty pupils at best. More individual attention must be bestowed upon each pupil, and the nature of the schools requires many classes. Assistants are therefore necessary when the number of pupils is much less than in the other ungraded schools.

The course of study for these schools ought to be one specially adapted to meet the wants of the class of pupils who attend them. The elements of a few essential branches thoroughly taught is worth more to these pupils than any attempt at the more extended course of the graded schools.

Time can be most profitably spent by the teachers also in reading good, wholesome stories to the pupils, interesting them if possible in such literature, and in giving short practical talks frequently on moral and hygienic topics.

The teachers are following the line of instruction suggested, so far as I have observed. They both appreciate the responsibility, as well as the peculiar nature of the work they are doing. Their influence upon their pupils is beneficial to a marked degree.

Evening Schools. — This has been a successful year for the evening schools. Under the operation of the "Law for Illiterate Minors," the attendance is at least five times greater than it was a few years ago. All illiterate minors are compelled to attend at least seventy per cent. of the time the schools are in session, or they cannot be employed. This attendance must continue until the ability to read and write simple English sentences is acquired. Experienced, trained teachers are necessary for the kind of work here demanded, and especially those who are familiar with primary methods. One teacher cannot teach more than twenty of the beginners with much profit. The success of the schools this year may therefore be attributed to two causes: First, only successful teachers have been employed, one for each twenty pupils; second, a course of instruction specially adapted to meet the requirements of the illiterates was prepared and used, which was supplemented by a more extended course for those who wished it.

These schools were under the charge of experienced principals, two of whom are principals of grammar day schools; the cases of discipline under their management were rare, and the order as good as in the best day schools; the methods of instruction were similar to those of the day schools, the grading of the schools permitting

much more class instruction than ever before. The results of the plan were shown in the fact that a great many pupils who could neither read nor write at the beginning of the year were enabled to pass the requirements of the law at the close and receive discharge tickets, while those in the more advanced classes showed equally rapid advancement.

Special Teaching. — The branches of study for which special instructors are employed in our schools are music, drawing, and sewing. The duties of the music teacher and of the drawing teacher of the primary and grammar grades are supervisory in their nature also; those of the teacher of drawing in the High school and those of the sewing teachers are confined to personal teaching only.

It is absolutely necessary for one who is to fill the position of special teacher acceptably to possess other qualifications than that of mere knowledge of the subject he is to teach. He should be above all a good teacher; he may be a fine singer, and not be able to teach singing; he may be able to draw, and yet be a very poor teacher of drawing; he may be able to sew, and yet fail to accomplish anything in teaching sewing. In one of the largest cities in this country, which is rapidly becoming famous for its school system, and which also is noted for the industrial turn that it is giving to its schools, general educational fitness and training as well as special fitness is required of its appointees to positions as special instructors. Is this not right? Is it not more necessary that one who is to direct the teachers and pupils of many grades should possess as high, if not higher, qualifications for teaching than one who is to instruct and guide but a few pupils in a single grade? Again, a special teacher should be in accord with the general aim and plan of the school system with which he is connected; comprehend the educational as well as the specific bearing of the

branch which he teaches, and its relation to the other studies of the curriculum.

The Normal Course in Music is in use in the schools. Under the supervision and teaching of the special instructor, this department is in good condition. The majority of teachers are seconding his efforts satisfactorily as they are becoming familiar with the aim and methods of the course. The instruction that he gives the pupil-teachers each week in the Training school, must prove beneficial to the schools in the future by furnishing adequate preparation to those who are to fill coming vacancies in the teaching corps.

The drawing is taking shape and substance in the lower schools, where it has long been but a name. Although the revised plan has been in operation but a few months, appearances indicate its success. The teachers are being instructed in grade meetings by the special teacher, and are carrying out with renewed confidence and intelligent purpose the instruction there given.

The sewing has been conducted as usual. The committee on sewing recommend in its report certain changes which will prove beneficial, if adopted. Were a more definite and systematic course of instruction adopted for teaching this branch of industry in the schools, I think still better results might be attained than are now secured.

THE HIGH SCHOOL.

The reports of the committee on this school for the past few years have been so complete in respect to the details of the plan of instruction now pursued, and the prevailing methods of teaching, that extended remarks from me on these points are unnecessary at this time. It is a pleasant duty to bear witness to the earnestness of purpose manifested by the teachers in their work, their evident

appreciation of the responsibilities of their high calling, and the generally excellent quality of the teaching.

The school has not escaped criticism, however. If criticism is made in a candid, kindly spirit, it ought to be welcomed; and, if faults are shown to exist, all interested should work together to correct them. Such criticism is productive of good; any other kind is baneful in its effects.

It was charged during the year that the pupils were being overworked; that too much time was required in home study. By instruction of the Board I made an investigation at the close of the fall term. While it appeared that a few pupils were taxing their strength, it seemed to be from voluntary effort rather than compulsion on the part of the teachers. The pupils as a whole were not overburdened. A circular of inquiry was sent to each pupil ranking over seventy per cent. for the term, requesting the amount of time spent each day in home study. The replies were tabulated, from which it appeared that the average amount of time given to home study was 2 hours 28½ minutes for each pupil. The committee did not consider the requirements excessive except in one class. In this case they were slightly modified. The course of study must be adapted to the capacity of the average pupil in good health. If any, by reason of physical weakness, are unable to do well the work required, it is their misfortune; they ought not to expect a modification of the course to meet their needs; their remedy lies in taking a partial course. Or, if any have entered the school with an inadequate preparation, whether due to their failure to apply themselves in the lower schools, or to circumstances, it is unjust to charge this school with exacting too much, if such pupils are forced to extra exertion in order to maintain their standing.

The average membership of the school for the year was 320. There has been no increase in the number of pupils attending for several years. In fact the membership is less than that of two years ago. It is only just to state, however, that the senior class is the largest in the history of the school. The question naturally arises, why is it that with a growth of thousands in the population of the city, this school shows a decreased attendance? It is not due to the efficiency of the school, as it has been shown that more who enter are held than ever before. There must be other causes. One undoubtedly is the withdrawal of many children into the parochial schools, which furnish no candidates for the High school; another, that a large portion of the new population is not of such a character as to appreciate the advantages of an academic High school.

But while the above explanations may account for the condition of the High school so far as present attendance is related to that of the past, is there not a reason why so few pupils comparatively are attracted to it and other classical high schools of the country? There is a growing conviction that the curriculum of the prevailing type of high school does not supply the kind of higher education that many wish for their children. There is a demand for more practical instruction. How to meet this demand is the educational problem of the hour. It is the subject of discussion at gatherings of teachers; it is the theme of magazine articles, and is a prominent subject in the editorials of daily newspapers.

The consensus of thought seems to favor the organization of manual training departments in connection with the schools, especially in connection with high schools, or, in cities sufficiently large to admit of it, the organizing of manual training high schools, to which the requirements of admission shall be the same as to the classical high

schools. Such schools now exist in St. Louis, Chicago, Baltimore, Toledo, Cleveland, Philadelphia, Cambridge, and other cities. Some of these schools form a part of the public school system, while others are independent of it. Several of them have been founded by public spirited citizens who felt the necessity of schools which should train the hands as well as the brains of boys and girls. In Toledo the Manual Training school occupies a wing of the High school building. It is open to both boys and girls. Superintendent Seaver of Boston, in his report to the School Board of that city on Manual Training schools, made after an examination of the leading manual training high schools in this country, speaks thus of the Toledo school: "The Toledo school is open to boys and girls, not only from the three classes of the High school, but from the senior grammar as well. This makes the course in manual training four years long, covering the eighth, ninth, tenth, and eleventh years of schooling. As already stated, the boys and girls who take this course take it as a clear addition to their other school-work, they being obliged to learn by home study lessons which their classmates not taking manual training have the time to study in school. But there have been no complaints of overwork, no falling off in interest on the part of the pupils who have once chosen manual training. On the contrary, manual training appears to be so attractive to the pupils, or to their parents, that the tendency to drop out of school before the end of the course has been in late years decidedly checked. The number of pupils in the Toledo High school has doubled within the last few years; and a large share of this increase, the teachers say, is clearly due to the introduction of manual training."

To give an idea of the course of study pursued in these schools, I give that of the Philadelphia Manual Training

High school. One hour a day is given to drawing, two hours to shop work, and three hours to the academic studies.

The following are the lines of work:

1. A course in language and literature, including the structure and use of English, Composition, Literature, History, Economics, and German.

2. A course in Science and Applied Mathematics, including Geology, Physics, Chemistry, Physiology, Economic Botany, Mechanics, Steam and Electrical Engineering, Mensuration, Book-keeping and Surveying.

3. A course in pure Mathematics, including Arithmetic, Geometry, Algebra and Plane Trigonometry.

4. A course in Free Hand, Mechanical and Architectural Drawing, Designing and Modeling.

5. A course in tool instruction, including joiners, pattern-making, wood-turning, wood-carving, modeling, forging, soldering, bronzing, moulding and casting, vice work, and mechanical construction.

New Bedford is already an industrial center of some prominence, and is destined to become still more prominent. Should not a trend be given in her schools toward instruction in the manual arts?

I will close this article by quoting again from Superintendent Seaver. He says: "More and more are men coming to see that liberal culture depends not so much on the subject matter of study, as on the methods of study; not so much on the kinds of knowledge acquired, as on the kind of man the process of acquisition has produced. In the kingdom of educated men that is to come, the ancient order of nobility will no longer hold exclusive privileges. The distinctions of rank will turn not on what men know, but on what they can do; not on the particular schools they have been through, but on the value of the service they are prepared to render mankind.

In such a kingdom a Bessemer or an Edison would not yield precedence to a Porson or a Bentley."

THE TRAINING SCHOOL FOR TEACHERS.

That those who intend to make teaching their profession should supplement their knowledge of the subjects they are to teach with a special course of study on the principles of teaching, and on accepted methods of presenting the subjects to be taught, in short, should add professional training to their scholarship, has become an accepted fact in the educational world. In certain countries of the Old World this professional training of teachers is most thorough, and is an absolute prerequisite to appointment. In this country, however, while the necessity of such a training is becoming generally recognized, the belief has so long existed in the popular mind that a person who knows the facts of the branches that he is to teach is sufficiently qualified to instruct youth, the growth of professional schools for teachers has been slow. The demand for better teachers, however, has increased rapidly within a few years. This is especially true in the East. The State Normal schools fail at present to meet the demand, either in the number or quality of its graduates, and, in self defence, the leading cities have been compelled to found schools in connection with their own systems, wherein those intending to teach in them may get some special training for their future work.

Such a school the Board has founded here. It has been in existence some months, and already gives promise of much usefulness. It is designed more especially to train candidates who wish positions as teachers in primary and grammar grades; but in lieu of a higher professional training school, those who intend to teach in secondary schools will find a course in it very beneficial.

The demand for some means by which those entering our schools as teachers should be better prepared for the work, has long been urged by the successive sub-committees of the Board, and was vigorously seconded by my honored predecessor. Several years ago more rigid examinations of candidates were instituted, and several months of observation in the schools required of those who were successful, before they were placed on the list of approved candidates. These requirements were good, so far as they went, but the results obtained from them were not satisfactory. The same examination is now required of candidates, and the course in the Training school additional.

While much is to be expected from the graduates of this school, expectation must be kept within reason. That they will make mistakes is probable; what teacher does not? That occasionally one will prove a failure may be expected; this can be without any blame attaching itself to the school. What then may be reasonably expected of its graduates? To answer this in a general way I should say: Some knowledge of the laws that govern the development of the human mind; some knowledge of the principles of teaching, which are based on these laws: some acquaintance with the accepted methods of presenting to pupils the special subjects that are required to be taught in the schools; the possession of some valuable experience whereby they may be guided in organizing and disciplining a school; also, an acquaintance with the school laws of the State, the manner of keeping the records and the reports that are required as well as the special organization and course of instruction in vogue in this city. That the graduates of this school will know these things, and more, there is no question; and, when I realize the saving of time and friction that such knowledge will make possible, I feel that the value of such a

school in connection with our system cannot be too highly appreciated. The Board was fortunate in securing an experienced principal, who possesses eminent qualities for the position. I know of no position connected with the schools that requires the exercise of ability and tact more than this one. Her report of the school is given below, also the examination required for admission and the regulations governing the school.

REPORT OF THE PRINCIPAL OF THE TRAINING SCHOOL, 1889.

Mr. Wm. E. Hatch, Superintendent of Schools:—

In accordance with your request, I herewith present the following report of the Harrington Training School for the four months since its establishment in September, 1889.

The school opened with twenty-four pupil-teachers and about three hundred children.

The pupil-teachers are divided into three classes, senior, junior, and sub-junior. The seniors and juniors comprise the teaching force of the school, the seniors having charge of the rooms and the juniors acting as assistants; the juniors have the charge of the children during the absence of the seniors for recitation. The sub-juniors are not expected to teach a class till they have obtained some knowledge of principles and methods of teaching. This knowledge is gained through study and recitation to the principal and assistant principal and through observation of the work of the other teachers.

The course of study for the pupil-teachers includes the History of Education, Psychology applied to teaching, Pedagogy, — including Principles of Teaching, School Organization, Management, and Discipline, — and methods of teaching the studies taught in the public schools.

It is intended that the greater part of the theoretical work shall be accomplished during the sub-junior term, that the teacher may have, before the children are placed in her hands, some knowledge of what she is to teach and how she is to teach it. In the junior and senior terms the teacher has special study in methods and actual experience in teaching.

Since September all the classes have received instruction in Psychology and in Principles of Teaching, have read a work on School Economy, have conducted recitations in the classes of teachers, have conducted recitations of children before the teachers' class, — in each case subject to the criticism of the class and of the principal, — and have observed lessons taught to the children by the principal and the assistant principal. The sub-juniors have also completed the History of Education, have had a thorough course in drawing from the special teacher of that study, and have had instruction in teaching music from the special teacher of music. Written examinations have been given in Psychology, Pedagogy, and the History of Education.

The special difficulties under which we have labored during this time have been the crowded condition of the lower grades till the opening of the seventh room, the delay in procuring an assistant, and the withdrawal of the pupil-teachers to substitute in other schools in the city. All of these were unavoidable, and, with one exception, have been remedied. One of the grades still enrolls more names than there are seats in the room, but the daily absence is enough to reduce the attendance to below the seating capacity. The faithfulness and efficiency of the assistant selected have done much to repair the loss necessarily sustained while attempting to establish so large a school without an assistant. The call for substitutes still continues and must do so till a class has been graduated,

when it is hoped the number of graduates will supply the demand.

It is to be regretted that the present senior class cannot spend a longer time in the school. The circumstances attending the establishing of a school like this, the difficulty of working with classes from so many different schools (most of the classes being composed of children from at least three schools), the many calls for substitutes, — all these disadvantages and interruptions must produce a lack of thoroughness and continuity in the training received during these first five months. The junior class has suffered from the same disadvantages, though in a lesser degree.

While one of the aims of a Training school is to graduate good teachers, it is also necessary that the welfare of the children is not neglected. But since good teaching means the development of the child, the two aims are not antagonistic; with due care that the children shall not suffer from a weak or inefficient teacher, there is no reason why the pupils in a training school should not make the same progress that children in other schools accomplish. In fact, in some respects, the advantage is on their side. Through several consecutive years of their school-life they are taught in accordance with the same principles, by the same methods, presumably good ones if the school is what a training school aims to be; they are placed more under the personal influence of the principal than can be done in many schools, and the "constant change of teachers," which is usually so disastrous to a class, is robbed of many of its disadvantages and becomes a factor in the advancement of the child. Here, the successive teachers use the same methods founded upon the same principles, so there is no radical change as far as the teaching is concerned; they already possess much knowledge of the class and of the work it has done; though the

same *methods* are used, the *manner* of presenting the subjects taught often varies; and it has been found that the children's minds are stimulated and broadened by this contact with different teachers.

An important point to be guarded against is the danger of making the teachers mere imitators. To avoid this, the teachers are instructed in the principles that underlie teaching and are encouraged to work out in their way the method of illustrating a given principle. They should know why they teach a certain thing in a certain way.

With this end in view the attempt has been made to lead the teacher to know something of the child's nature, its needs and limitations, to make them acquainted with the laws that govern the training and development of that nature and to show them some of the methods by which that training and development may be given.

The following table relating to the pupil-teachers may be of interest: —

Whole number of pupil-teachers enrolled January 1, 1890,	24
Number of pupil-teachers in senior class,	6
Number of pupil-teachers in junior class,	12
Number of pupil-teachers in sub-junior class,	6
Number of days of substituting by pupil-teachers,	94½
Number of days of other absence of pupil-teachers,	70
Total number of days absence of pupil-teachers,	164½
Number of visitors since Oct. 25 (the record before that date is incomplete),	51

Respectfully submitted,

JOSEPHINE B. STUART,

Principal.

January, 1890.

EXAMINATION REQUIRED FOR ENTRANCE TO TRAINING SCHOOL.

THIRD GRADE.

Language — The English language, its grammar and literature; the power of easy and accurate composition, showing the possession of an available vocabulary and a trained ability to think and reason; the power to read with intelligence and expressive elocution.

Writing — A creditable handwriting.

Mathematics — Arithmetic; the elements of plain geometry.

Geography and history — Physical and political geography; general history, or the history of England and of the United States.

Sciences — Physiology with school hygiene; physics; the elements of any one of these sciences, botany, zoology, geology.

Music and drawing — The rudiments of music and drawing.

SECOND GRADE.

The various subjects required for examination for a third grade certificate, each carried forward to a more extensive familiarity with principles and facts, and the following additions:

Civil government, with special reference to the United States.

FIRST GRADE.

The various subjects required for a second grade certificate, enlarged to still more comprehensive limits, and the following additions:

History and structure of the English language.

Algebra.

Latin; and French or German.

A total average of 70 per cent. in all the studies is required, and at least 50 per cent. in each.

REGULATIONS GOVERNING TRAINING SCHOOL.

The following rules shall apply exclusively to the Training school, but it shall also be subject to the general rules and regulations on all points not covered by these special rules:

1. The corps of teachers shall consist of a principal, an assistant, and not more than twenty-four pupil-teachers, divided as nearly as possible into three classes of eight members each. The length of the course shall be one and a half school years.

2. The pupil-teachers shall be appointed by the Committee on Training School. No person shall be eligible to appointment as a pupil-teacher who is not a graduate of a full four-years' course in the New Bedford High school, or of a school of equal standing, and who has not taken the examination for teachers and been granted a third grade certificate.

3. The three classes shall be known as the Senior, the Junior, and the Sub-Junior. The Senior class shall be composed of those pupil-teachers who have already served one year in the school, and have been regularly promoted; the Junior class of those who have already served one half-year in the school, and have been regularly promoted; the Sub-Junior class, of those who have served no time in the school before admission to the class.

4. The pay of the pupil-teachers shall be as follows: Senior class at the rate of $4 per week for actual service; Junior class at the rate of $3 per week for actual service; the members of the Sub-Junior class shall serve without pay; but when any pupil-teacher shall be assigned for substitute duty she shall receive regular substitute's pay for the grade of school in which she substitutes. When a pupil-teacher is acting as substitute, her pay as a member of the training class shall cease.

5. No pupil-teacher shall substitute more than three weeks in any one term, unless in the opinion of the Chairman of the Training School Committee and the Superintendent of Schools, the best interests of the schools shall be subserved by a longer service.

6. The Training School Committee shall have power to fill any vacancies occurring in the corps of pupil-teachers in such way as it may deem best, and in conformity with the rules of the Board.

7. All substitutes in the regular schools shall be taken when practicable, first, from unassigned graduates of the school; second, from either the Senior or Junior classes in the school. Requisitions for undergraduate substitutes shall be made upon the Superintendent of Schools by the principal or committee needing such substitute; in case a substitute shall be furnished by the Superintendent on requisition of a principal, the Superintendent shall report the same to the chairmen of the proper committees.

8. Pupil-teachers may at any time be notified by the Committee on Training School that their services are no longer needed, when in the judgment of said committee such teachers are disqualified for the position of teachers.

9. The names of all candidates for graduation shall be reported to the Training School Committee by the principal of the school at least two weeks before the time for the completion of their course.

10. Pupil-teachers who in the opinion of the Committee on Training School and the principal of the same have satisfactorily completed the course prescribed in the Training school, shall be granted certificates of graduation signed by the Chairman of the Training School Committee, the Superintendent of Schools and the Principal of the school. Such graduates shall be eligible for appointment as regular teachers in either the primary or grammar corps on second year pay without further examination; but no

graduate shall be eligible for appointment to a position in the High school corps of teachers who does not hold a first grade certificate.

11. Examinations of candidates for admission to the Training school shall be held in January and August of each year by the Committee on Examination of Teachers, public notice of which shall be given at least two weeks before the examination. (See Sec. 2.) No candidate shall be permitted to enter the Training school after the first week of the term, except by special vote of the Training School Committee.

12. The principal of the school and her assistant shall instruct the pupil-teachers (1) in school organization and management; (2) in school discipline and hygiene; (3) in the history of education and the general principles of pedagogics; (4) in methods of teaching the different branches of the common school curriculum.

TEACHERS' MEETINGS.

I have held meetings of the principals of the schools each month throughout the year. I have also held grade meetings of the primary teachers from time to time. The grade meetings have not been held as often as I had intended or wished, and I hope to hold them more often during the ensuing year.

The chief duty of the Superintendent is to direct the teaching in the city. In no way can he reach the teachers so effectually as by grade meetings. In them, he can discuss the principles of teaching, and present methods to guide the instruction and discipline. He is then enabled in his visits to the schools to observe whether these methods are applied rationally; if not, attention to failure in this respect may be considered in future meetings.

The teachers have also been assembled several times to

listen to addresses on educational topics, by men who rank high in the profession of teaching. These lectures are provided for by an appropriation from the income of the Howland fund. The following are the names of those who have already addressed the teachers:

Gen. T. J. Morgan; subject, Training to Think.

Dr. Larkin Dunton; subject, Psychology applied to Teaching.

Supervisor Robert C. Metcalf; subject, Language.

Mr. William Cranston Lawton; subject, The Closing Scenes of the Iliad.

These addresses were both interesting and profitable. Others bearing on special subjects of teaching are to be given in the future by those well qualified to discuss them.

PROFESSIONAL READING.

Those who are engaged in the practice of any profession cannot afford in these days to neglect the reading and study of the literature relating to their special line of work. If they do, their scope of information soon becomes inscribed within the limits of personal experience; they cease to grow in the special knowledge necessary to their calling; they get into ruts, and find in a short time that public confidence is withdrawn from them. The great body of teachers in the past have failed to recognize their duty in regard to professional culture, and this is one of the chief reasons why teaching has so long been denied a position among the liberal professions. There is no good reason why it should not attain that dignity, and it must in the near future.

Until within a few years the amount of literature bearing directly on the teachers' profession was limited, for the simple reason that there had been little demand for it. But the world is fast becoming rich in publica-

tions relating to education. Papers and periodicals ably edited, and replete with suggestive aids for the school room, are now within the reach of all who desire them; reports of meetings, which contain the discussions of live topics by leading educators, are numerous; monographs on special subjects of study, and more pretentious works on the history of education, on the history of pedagogy, on the principles of teaching and the methods of application, in fact, works of all kinds relating to the science and the art of teaching are now abundant, and others are constantly being issued.

By action of the Board, the teachers are already furnished with a certain number of educational papers from the income of the Howland fund; it has recently established also a "Pedagogical Library" at the Superintendent's office for their use. In no way can a certain portion of this income be put to a better purpose than by furnishing educational books and papers for the use of the teachers. Their professional spirit and educational thinking will be quickened by such means — the surest method of securing from them good instruction.

I doubt not that the papers furnished are read. The patronage accorded the library shows that many of the teachers appreciate its benefits. I wish that more would take time to familiarize themselves with at least a few of its best pedagogical works. Any teacher who will not do this is not strongly imbued with the teaching spirit. A prominent physician of the city remarked in conversation recently that he found little time for recreation; that he felt compelled to devote his leisure moments to professional reading and study, and even that he had difficulty in keeping abreast of the times. While it would scarcely be wise for teachers to surrender all recreation to the duties of their calling, those who are in earnest will

find time and means for keeping in touch with the best educational thoughts.

A list of the books that have already been placed in the library is given below. Others will be added from time to time as occasion warrants.

No.	Title.	Author.
1.	The History of Pedagogy	Compayre.
2.	The Elements of Pedagogy	White.
3.	Systems of Education	Gill.
4.	John Amas Comenius	Laurie.
5.	Essays on Educational Reformers	Quick.
6.	Particular Systems of Education. Part III.	Rosenkranz.
7.	Higher Schools and Universities in Germany	Arnold.
8.	Some Thoughts Concerning Education	Locke.
9.	Emile	Rousseau.
10.	Leonard and Gertrude	Pestalozzi.
11.	Levana	Richter.
12.	The Education of Man	Froebel.
13.	Education	Spencer.
14.	Lectures and Annual Reports. Vol. I.	Mann.
15.	" " " " " II.	"
16.	" " " " " III.	"
17.	Lectures on the Science and Art of Education	Payne.
18.	The Philosophy of Education	Tate.
19.	The Elements of Pedagogy	White.
20.	On Teaching: its ends and means	Calderwood.
21.	The Principles and Practice of Common School Education	Currie.
22.	Lectures on Teaching	Fitch.
23.	" " "	"
24.	Methods of Historical Study	Freeman.
25.	Methods of Teaching History	Hall.
26.	How Shall my Child be Taught	L. P. Hopkins.
27.	Theory and Practice of Teaching	Page.
28.	Talks on Teaching	Parker.
29.	Art of School Management	Baldwin.
30.	School Management	Landon.
31.	On Teaching Geography	Geikie.
32.	Education and Educators	Kay.
33.	Scholemaster.	Ascham.
34.	Outline Study of Man	Hopkins.
35.	School Economy	Wickersham.
36.	School Room Guide	DeGraff.

37. Manual of Method and Organization. . . . . Robinson.
38. Lectures on Geography. . . . . Strachey.
39. The Action of Examinations. . . . . Latham.
40. Object Lessons. . . . . Walker.
41. The True Order of Studies. . . . . Hill.
42. Theory and Practice of Teaching. . . . . Thring.
43. School Journal. Vol. I. . . . . Mann.
44. " " " II. . . . . "
45. " " " III. . . . . "
46. " " " IV. . . . . "
47. " " " V. . . . . "
48. " " " VI. . . . . "
49. " " " VII. . . . . "
50. " " "VIII. . . . . "
51. " " " IX. . . . . "
52. " " " XI. . . . . "
53. " " " XII. . . . . "
54. " " "XIII. . . . . "
55. " " "XIV. . . . . "
56. Art of School Management. . . . . Baldwin.
57. Methods and Aids in Geography. . . . . King.
58. " " " . . . . . "
59. Contributions to the Science of Education. . Payne.
60. Power and Authority of School Officers and Teachers.
61. " " " " "
62. Compayre's Lectures on Pedagogy. . . . . Payne.
63. Rosmini's Method in Education. . . . . Grey.
64. Bibliography of Education. . . . . Hall.
65. Lectures to Kindergartners. . . . . Peabody.
66. Early Training of Children. . . . . Malleson.
67. Habit in Education. . . . . Hall.
68. Modern Petrography. . . . . Williams.
69. The Study of Rhetoric. . . . . Genung.
70. English in the Preparatory Schools. . . . . Hoffcut.
71. English in the Schools. . . . . Woodward.
72. How to Teach Reading. . . . . Hall.
73. The Study of Latin. . . . . Morris.
74. Mathematical Teaching. . . . . Safford.
75. How to Study Geography. . . . . Parker.
76. Studies in Pedagogy. . . . . Morgan.
77. Educational Mosaics. . . . . Morgan.
78. Elements of Psychology. . . . . Hewett.
79. Topics in Geography. . . . . Nicols.
80. Compayre's Lectures on Pedagogy. . . . . Payne.
81. Notes of Lessons for Young Teachers. . . . Taylor.

82. Geography Teaching and Sand Modelling. . Frye.
83. " " " " . "
84. How to Teach Language. . . . . Metcalf.
85. How to Teach Geography. . . . . Carver.
86. Arithmetic in Primary Schools. . . . . Dunton.
87. Cyclopædia of Education. . . . . Kiddle & Schem.
88. Orbis Pictus. . . . . Comenius.
89. Free Schools of the United States. . . . . F. Adams.
90. Prosperity or Pauperism? . . . . . Earl of Meath.
91. Outlines of Psychology. . . . . Sully.
92. Primary Education. . . . . Jacobi.
93. Order of Exercises in Elocution. . . . . Parker.
94. Life and Education of Laura D. Bridgman. Lamson.
95. School Inspection. . . . . Fearon.
96. True Order of Studies. . . . . Hill.
97. Kindergarten Culture. . . . . Hailman.
98. Education and School. . . . . Thring.
99. Reminiscences of Froebel, by Von Bülow. Translated by . . . . . Mrs. Horace Mann.
100. Education in its Relation to Manual Training. McArthur.
101. Schools and Studies. . . . . Hinsdale.
102. The Quincy Methods. . . . . Partridge.
103. The Teacher. . . . . Blakiston.
104. Reports on Elementary Schools. . . . . Matthew Arnold.
105. Address on Educational Subjects. . . . . Laurie.
106. Scientific Industries Explained. . . . . Watt.
107. The Teacher. . . . . Abbott.
108. Development of the Intellect. . . . . Preyer.
109. Memory—What it is and how to Improve it. Kay.
110. Methods of Teaching Geography. . . . . Crocker.
111. Teacher's Manual of Object Lessons. . . . Park.
112. Three Lectures on Education. . . . . Dr. Oppler.
113. Chips from a Teacher's Workshop. . . . . Klemm.
114. First Three Years of Childhood. . . . . Perez.
115. Physical Education. . . . . Maclaren.
116. School Management. . . . . Kellogg.
117. Day Dreams of a School Master. . . . . Thompson.
118. Autobiography of Froebel. . . . . .
119. Educational Theories. . . . . Browning.
120. A Tractate on Education. . . . . Milton.
121. Securing and Retaining Attention. . . . . Hughes.
122. Three Essays—Study of English Literature. Blaisdell.
123. Old Greek Education. . . . . Mahaffy.
124. Locke's Conduct of the Understanding. . . Fowler.
125. Gill's School Management. . . . . John Gill.

126. Cultivation of the Memory. . . . . .
127. Cultivation of the Senses. . . . . .
128. On Discipline. . . . . .
129. On the Use of Words. . . . . .
130. On Class Teaching. . . . . .
131. Hand-book of Punctuation. . . . . Bigelow.
132. Book of Object Lessons. . . . . Lake.
133. Swedish System of Educational Gymnastics. Baron Nils Posse.
134. Compayre's History of Pedagogy. . . . . Payne.
135. A Treatise on Pedagogy. . . . . Hewitt.

SCHOOL SESSIONS IN STORMY WEATHER.

At present, there is no well-defined regulation of the School Board by which unity of action is effected throughout the schools of the city in regard to school sessions in stormy weather. As the matter now rests, the responsibility of holding no session of the schools in the afternoon, in case the weather seems unsuitable, lies with the principals. No provision whatever is made for no session in the morning, no matter what the weather may be. It frequently happens that one session is held in part of the schools and two in others. It also happens occasionally that the teachers find on reaching their schools on very stormy mornings so small a percentage of their pupils present that there is no object in attempting school. They return home having accomplished nothing, some of them perhaps having endangered their health by the exposure.

It is true that the days are not frequent when the majority of the pupils (except those of the lower primary grades) cannot get to their schools without undue exposure. Sessions of schools should only be omitted when the weather is such that pupils in good health and properly clad cannot attend without endangering their health. Such days sometimes occur. On the other hand, sessions might be held when the majority of the pupils could attend, while some in delicate health and others

who were temporarily without wearing apparel suited to inclement weather ought not to do so. Neither teachers nor parents should expect omission of school sessions for the last two classes of pupils mentioned.

The faults with the present state of affairs are these: There is no unity of action possible owing to divided responsibility; there is no provision for omitting morning sessions. I have been criticised a number of times during the year by parents and others for not ordering the omission of school sessions in bad weather, they naturally supposing that I, as Superintendent, would have the matter in charge. It is well known to your Board that I do not control the matter now; nor would it be any use to place the control in my hands unless some arrangement can be made with those in charge of the Fire Department, by which special signals would be struck on the fire bells at times agreed upon, these to indicate to teachers and pupils the omission of the school session. This is done in most cities where they have a fire alarm service, and I cannot understand what reasonable objection can be brought against adopting it here.

I earnestly recommend to your Board to take this matter under early advisement, and to make some arrangement by which the present practice with its faults may be improved. I know that the principals desire a change, and I am confident that the general plan in use in other cities would recommend itself to the majority of the parents here, were it in practice.

CONCLUSION.

Gibbon wrote years ago, "All that is human must retrograde if it do not advance." If ever that saying was true, it applies with renewed force to the world of to-day. Progress is manifest in every sphere of human activity.

The friends of the public schools claim that these too have kept pace with the march of progress. They offer as evidence the better preparation for their work of those who instruct in them; the more rational methods of teaching and discipline that are used; the great improvement that has been made in all the mechanical means that are employed; the superiority of the modern school buildings over those of the past, whereby the health and comfort of pupils and teachers are improved, — all of these, they claim, have force to promote the mental, moral and physical well-being of the pupils (the true end of education) as never before.

But notwithstanding the progress that has been made, they also realize that there are vital questions still that are thrusting themselves forward for settlement, which give promise of greater changes in our school system in the near future than have yet come to it.

> "Thus times do shift, each thing his turn does hold,
> New things succeed as former things grow old."

And so the exponents of manual training claim that the time has come when it should be engrafted on the school system; that the education now provided does not meet the demands of a large class of citizens. This is only one of the questions that to-day is exercising the minds of those interested in educational matters; but it probably is the most important one. That this and all other questions which affect the integrity of the public schools will be settled by the promotion of their best interests, I have faith to believe; but it will require the exercise of wisdom by those who administer their affairs, and more than all will demand the loyal and steadfast support of an enlightened public, upon whom rests not only the future welfare of the schools, but also the safety of the nation.

Respectfully submitted,

WILLIAM E. HATCH,
Superintendent of Schools.

CALENDAR, 1890.

Winter Term begins January 6, 1890; ends April 11, 1890.
Summer Term begins April 21, 1890; ends June 27, 1890.
Fall Term begins September 2, 1890; ends December 19, 1890.

VACATIONS.

From Wednesday noon before Thanksgiving, the remainder of the week.

April 12, 1890 to April 20, 1890, inclusive.

June 28, 1890 to September 1, 1890, inclusive.

December 20, 1890 to January 4, 1891.

HOLIDAYS.

Every Saturday; Washington's Birthday, or the day following when that occurs on Sunday; Memorial Day; Labor Day; all National and State Fast Days.

SCHOOL SESSIONS.

9 A. M. to 11.30 A. M., and 2 P. M. to 4 P. M., in the Grammar schools. 9 A. M. to 12 M., and 2 P. M. to 4 P. M., in the Primary schools, except during the time from Nov. 1st to March 1st the afternoon sessions are: 1.30 P. M. to 3.30 P. M.

High school, 8.30 A. M. to 1.30 P. M.

List of Teachers.

HIGH SCHOOL.

Grade.		Residence.	Salary.
	Ray Greene Huling, Principal,	195 Cottage street,	$2,750
	Chas. R. Allen,	1 Lincoln "	1,400
I.	Chas. T. Bonney, Jr.,	121 Washington "	1,600
I.	Sarah D. Ottiwell,	74 Kempton "	900
II.	Elizabeth P. Briggs,	100 Hillman "	900
II.	Lydia J. Cranston,	81 North "	900
III.	Emma H. Wheeler,	2 Mt. Vernon "	800
III.	Mabel A. Spooner,	12 Morgan "	400
IV.	Mary E. Austin,	214 Kempton "	900
IV.	Lucretia N. Smith,	72 Foster "	900
IV.	Emma K. Shaw,	72 High "	750

GRAMMAR SCHOOLS.

FIFTH STREET:

	Allen F. Wood, Principal,	111 Acushnet avenue,	1,800
V.	Helen L. Hadley,	196 Grinnell street,	550
V.	Sarah W. Almy,	20 Ash "	550
VI.	Sarah A. Carr,	56 Spring "	550
VI.	Sarah E. Stoddard,	352 County "	550
VII.	Mary E. Allen,	25 Madison "	550
VII.	Elizabeth P. Brightman,	24 Madison "	550
VII.	Janet Hunter,	55 No. Sixth "	550
VIII.	Mary A. Kane,	127 Grinnell "	550
VIII.	Lydia A. Macreading,	17 Bonney "	550
IX.	Lena A. Chubbuck,	148 Purchase "	525
IX.	Nancy H. Brooks,	135 Fourth, "	525

MIDDLE STREET:

	George H. Tripp, Principal,	Fairhaven,	1,800
V.	Clara S. Vincent,	233 Middle street,	550
VI.	Agnes J. Dunlap,	117 Hillman "	550
VI.	Hattie F. Hart,	233 Acushnet avenue,	550
VII.	Katharine Commerford,	634 County street,	550
VII.	Lucy B. Fish,	64 Smith "	550
VIII.	Maria B. Clark,	131 Chestnut "	550
VIII.	Clara B. Watson,	37 Fifth "	550
IX.	Mary R. Hinckley,	111 High "	550
IX.	Mabel W. Cleveland,	51 Summer "	550

PARKER STREET:

Grade.		Residence.	Salary.
	Charles E. E. Mosher, Principal,	92 High street,	$1,800
V.	Helen M. Gordon,	11 Franklin "	550
V.	Anna L. Jennings,	115 Maxfield "	550
VI.	Emma A. McAfee,	72 School "	550
VI.	Emma B. Allen,	Cor. Morgan & Cottage sts.,	500
VII.	Eliza J. D. Shepherd,	5 Lincoln street,	550
VII.	Martha A. Hemenway,	5 Lincoln "	550
VII.	Josephine Almy,	201 Cottage "	550
VIII.	Emma C. Nash,	1121 Acushnet avenue,	550
VIII.	Emma B. McCullough,	300 Purchase street,	450
IX.	May L. Pettey,	22 Pope "	525
IX.	Lizzie E. Omey,	63 Thomas "	450
IX.	Mariana N. Richmond,	34 High "	525
IX.	Emily A. Delano,	464 County "	475

THOMPSON STREET:

VII.	Katharine N. Lapham, Principal,	37 Elm street,	750
VIII.	Abby F. Sullivan,	230 County "	550
IX.	Mary A. Macy,	72 Bedford "	550
IX.	Chella F. Carpenter,	2 Grape "	475

HARRINGTON TRAINING SCHOOL.

	Josephine B. Stuart, Principal,	464 County street,	1,200
	Anna W. Braley,	619 County "	650
	Twenty-four training teachers.		

PRIMARY SCHOOLS.

ACUSHNET AVENUE:

X.	Jane E. Gilmore, Principal,	245 Acushnet avenue,	600
XI.	Sarah E. Kirwin,	101 So. Sixth street,	500
XII.	Helen C. Allen,	173 Grinnell "	500
XII.	Clara C. M. Gage,	78 Mill "	475
XIII.	Susan M. Lucas,	167 North "	500
XIII.	Carrie S. Silva,	81 Washington "	425

CEDAR STREET:

X.	Annie S. Homer, Principal,	117 Hillman street,	575
XI.	Bessie P. Pierce,	1 Court "	500
XII.	Abby D. Whitney,	59 Hill "	500
XIII.	Willetta B. Nickerson,	46 State "	475
XIII.	Annie L. Edwards,	62 North "	475

CEDAR GROVE STREET:

Grade.		Residence.	Salary.
X.	Flora E. Estes,	535 Purchase street,	$475
XI.	Carrie A. Shaw,	Belleville,	475
XII.	Annie G. Brawley,	23 Washburn "	400
XIII.	Mary J. Eldridge,	200 So. Second "	500
XIII.	Lucy F. Clark, Principal,	131 Chestnut "	575

DARTMOUTH STREET:

X.	Isadore F. Eldridge, Principal,	28 Sherman street,	550
XI.	M. Eva Schwall,	11 Bonney "	500
XII.	Annie M. Carpenter,	2 Grape "	500
XIII.	Sara H. Kelley,	24 Seventh "	500

FOURTH STREET:

X.	Sarah H. Cranston, Principal,	81 North street,	575
XI.	Eliza H. Sanford,	76 Fifth "	500
XII.	Sarah E. Sears,	21 Griffin "	500
XIII.	Annie L. Macreading,	17 Bonney "	450
XIII.	Ida G. Howard,	15 Morgan "	500

GROVE:

X.	Jane C. Thompson, Principal,	194 County street,	550
XI.	Sarah E. Tuell,	1046 So. Water "	500
XII.	Hattie L. Finlan,	186 County "	500
XIII.	Nellie W. Davis,	49 Bedford "	500
XIII.	Mary Barstow,	So. Orchard "	425

LINDEN STREET:

X.	Elizabeth P. Spooner, Principal,	129 Hillman street,	550
XI.	Isabella Luscomb,	245 Cedar "	500
XII.	Isadora Foster,	48 Parker "	500
XIII.	Lucy S. Leach,	91 Maxfield "	500

MERRIMAC STREET:

X.	Sarah H. Hewins, Principal,	111 Merrimac street,	550
XI–XII.	Addie West,	232 Pleasant "	500
XIII.	Hattie S. Damon,	78 Hillman "	475

MAXFIELD STREET:

X.	Bessie P. Nash,	1121 Acushnet avenue,	475
XI.	Sarah E. Field,	240 Middle street,	500
XII.	Annie E. Pearce,	151 Hillman "	500
XIII.	Mary B. White, Principal,	57 Foster "	550

THOMPSON STREET:

Grade.		Residence.	Salary.
X.	Susan M. Tompkins, Principal,	2 Court street,	$550
XI.	Helen J. Kirk,	27 Franklin "	500
XII.	Grace H. Potter,	4 Orchard "	475
XIII.	Annie C. O'Connor,	299 County "	500
XIII.	Sarah A. Winslow,	316 County "	400

WILLIAM STREET:

X.	Eleanor Commerford, Principal,	634 County street,	550
XI.	Mary J. Graham,	12 Court "	500
XII.	Kate E. Cleary,	61 Mechanics lane,	500
XIII.	Amelia Lincoln,	87 Walden street,	500

COUNTRY SCHOOLS.

ACUSHNET:

Charlotte C. Carr, Principal,	56 Spring street,	700
Belle B. Wheeler,	2 Mt. Vernon "	425
Caroline O. Pierce,	1 Spruce "	475

CANNONVILLE:

Addie J. McFarlin, Principal,	152 Kempton street,	525
Lillie C. Tillinghast,	Cor. Middle and Pleasant streets,	425

CLARK'S POINT:

Annie B. Parker,	83 Walden street,	400

NORTH:

Mary I. Ashley,	Clifford,	550

ROCKDALE:

Susan C. Graffam,	280 Acushnet avenue,	450

PLAINVILLE:

Mary Chace,	Hathaway road,	475

MILL SCHOOLS.

NORTH:

Emma R. Wentworth,	117 Hillman street, $15.50 per week.

SOUTH:

Lucy J. Remington,	493 County street, $15.00 per week.

SPECIAL TEACHERS.

DRAWING:

	Residence.	Salary.
Arthur J. Cumming,	Fairhaven,	$550
Adelaide B. Hyde,	175 William street,	1,200

SINGING:

Fred. L. Diman,		1,500

SEWING:

Carrie H. Richmond,	33 Seventh street,	525
Eliza A. Smalley,	71 So. Sixth "	270
Gertrude H. Leonard,	62 Fifth "	270

MILITARY INSTRUCTOR:

John K. McAfee,	72 School street,	300

EVENING SCHOOLS.

DRAWING:

Arthur J. Cumming,	Fairhaven.	250
George A. Stetson,	99 Washington street.	6.00 per week
George H. Nye,	323 Cottage "	6.00 "

FIFTH STREET:

Oliver W. Cobb,	12.00 per week
Mrs. S. C. Whelden,	8.00 "
Mrs. C. T. Johnson,	5.50 "
Mary Crowell,	5.50 "
Lena B. Hamblin,	5.50 "
Harriet S. Gardner,	5.50 "
Sarah A. Winslow,	5.50 "
Mary G. Bonney,	5.50 "
Annie F. Smith,	5.50 "
Alice A. Taylor,	5.50 "
Annie L. Brownell,	5.50 "
Nellie H. Cook,	5.50 "
M. Eva Schwall,	5.50 "
Mary E. Pasho,	5.50 "
Sarah E. Stoddard,	5.50 "
Mary E. Barstow,	5.50 "
Lizzie B. Brightman,	5.50 "

PARKER STREET:

	Salary.
George H. Tripp,	$12.00 per week
Nathaniel W. Gifford,	8.00 "
Sara L. Tallman,	5.50 "
Lillie C. Tillinghast,	5.50 "
Annie B. Parker,	5.50 "
Ida A. McAfee,	5.50 "
Mary F. Wilde,	5.50 "
Rachel L. Denham,	5.50 "
Myra A. Leach,	5.50 "
Willetta B. Nickerson,	5.50 "

CEDAR GROVE STREET:

Allen F. Wood,	12.00 per week
Ruby M. Tripp,	8.00 "
Annie G. Brawley,	5.50 "
Grace Carver,	5.50 "
Sarah Bowen,	5.50 "
Nannie P. Slocum,	5.50 "
Agnes J. Dunlap,	5.50 "
Addie J. McFarlin,	5.50 "
Mary R. Hinckley,	5.50 "
Abby R. Johnson,	5.50 "
Lydia A. Macreading,	5.50 "
Sarah E. Kirwin,	5.50 "
Lucy D. Ashley,	5.50 "
Clara S. Vincent,	5.50 "
Mabel W. Cleveland,	5.50 "

MERRIMAC STREET:

Joseph P. Kennedy,	10.00 per week
Katharine N. Lapham,	7.00 "
Grace H. Potter,	5.50 "
Regina M. Paul,	5.50 "
Edith K. Weeden,	5.50 "
Gertrude M. Robinson,	5.50 "

CENTRAL:

Mrs. S. W. Wilde,	8.00 per week
Cora B. Cleveland,	5.50 "

RULES GOVERNING TEACHERS' SALARIES.

The maximum salaries for the various grades are as follows:

Principals of Grammar schools,	$1,800
" Primary "	600
Assistants in Grammar schools,	550
" Primary "	500

The salary of a Primary School Principal of a four room building is $550 per year, which is increased at the rate of twenty-five dollars for each additional room.

The salaries of all other regular teachers in primary and grammar grades not receiving the maximum salary, are increased at the rate of twenty-five dollars per year until the maximum salary is reached.

Ungraded schools,	$400 to $500
High School Principal,	2,750
" " Sub-Master,	1,600
" " Teacher of Sciences,	1,400
" " Lady Assistants,	900
Training School Principal,	1,200
" " Assistant,	625
Supervisor of Drawing in Grammar and Primary schools,	1,200
Teacher of Drawing in High school,	550
Teacher of Singing,	1,500
Teacher of Sewing,	525
Assistants,	270

NEW BEDFORD PUBLIC SCHOOLS.

RATES OF TUITION FOR NON-RESIDENT PUPILS.

	First Term.	Second Term.	Third Term.	For the Year.
High School,	$17.26	$12.34	$19.74	$49.34
Grammar Schools,	8.05	5.74	9.20	22.99
Primary Schools,	6.07	4.33	6.93	17.33
Training School,	6.20	4.43	7.09	17.72
Ungraded Schools,	7.82	5.59	8.95	22.36

Tuition is payable in advance either at the office of the Superintendent of Schools, or at the schools where the pupils attend. All bills will be sent from the office of the Superintendent of Schools.

DEPARTMENT OF PUBLIC SCHOOLS.

BRIEF DESCRIPTION OF THE SCHOOL HOUSES, WITH THEIR ACCOMMODATIONS AND CONDITIONS.

	SCHOOLS.	Material.	No. of Stories.	No. of School-Rooms.	No. of Recitation-Rooms.	No. of Assembly-Halls.	No. of Seats.	Condition.
1	Acushnet avenue,	Brick,	3	6			323	Good.
2	Acushnet,	Wood,	2	3			114	New.
3	Cedar street,	Wood,	2	6			231	Good.
4	Cedar Grove street,	Brick,	3	6			304	Good.
5	Cannonville,	Wood,	2	2	2		83	Fair.
6	Clark's Point,	Wood,	1	1	1		30	Fair.
7	Dartmouth street,	Wood,	2	6			300	New.
8	Fifth street,	Brick,	3	10		1	562	Good.
9	Fourth street,	Wood,	2	6			252	Fair.
10	Farm,	Wood,	1					Good.
11	Grove,	Wood,	2	4			196	Poor.
12	High school,	Brick,	3	9	7	1	368	Good.
13	Harrington,	Brick,	3	8	1		343	New.
14	High street,	Wood,	2					Old and Poor
15	Kempton street,	Wood,	2	4				Old and Poor
16	Linden street,	Wood,	2	4			204	Fair.
17	Middle street,	Brick,	3	9		1	359	Good.
18	Merrimac street,	Brick,	2	6			238	Good.
19	Maxfield street,	Brick,	2	4			201	Good.
20	North,	Wood,	1	1			43	Good.
21	Parker street,	Brick,	3	12		1	652	Good.
22	Plainville,	Wood,	1	1			28	Good.
23	Rockdale,	Wood,	1	2			92	Good.
24	Thompson street,	Brick,	3	9			491	Good.
25	William street,	Wood,	2	4			185	Fair.

DEPARTMENT OF PUBLIC SCHOOLS, NEW BEDFORD, MASS.

Report for Year Beginning January 7th, Ending December 20th, 1889.

	NAME OF SCHOOL.	Total Enrollment for Year.	Average No. Belonging.	Average Daily Attendance.	Per cent. of Attendance.	Total Half Days' Absence.	No. Cases of Tardiness.	No. Cases of Dismissal.	No. Cases of Truancy.	No. Cases of Corporal Punishment.	Half Days Teachers were Absent.	Times Teachers were Tardy.	No. Visits by Superintend't.	No. Visits by Members Committee.
1	High,	459	320	305	.95	3,137	562	1,468	5		41	49	21	88
2	Fifth St. Grammar,	540	437	417	.95	8,272	1,565	1,827	27	96	27	10	54	50
3	Middle St. Grammar,	427	349	329	.94	7,861	959	1,297	29	185	117	12	33	33
4	Parker St. Grammar,	663	494	476	.94	11,387	2,256	1,446	41	177	46	10	50	36
5	Thompson St. Grammar,	237	164	154	.94	4,256	328	181	20	138	13	4	20	10
6	Harrington Training,	313	299	274	.92	3,684	237	140	5	28			29	66
7	Acushnet Ave. Primary,	321	252	234	.93	7,015	551	316	8	162	149	3	13	7
8	Cedar St. Primary,	225	200	185	.93	5,724	264	239	8	48	6	5	15	11
9	Cedar Grove St. Primary,	264	123	112	.91	4,853	196	1,010	4	71	27	1	16	16
10	Dartmouth St. Primary,	173	149	137	.92	3,984	389	316	2	170	200		22	31
11	Fourth St. Primary,	257	189	170	.90	6,356	786	416	21	90	49	6	19	15
12	Grove Primary,	374	201	186	.93	5,661	966	2,285	13	117	51		13	
13	Linden St. Primary,	144	126	115	.91	4,214	284	260	3	22	154	1	13	8
14	Merrimac St. Primary,	129	95	86	.91	3,172	199	242	3	18	7		11	10
15	Maxfield St. Primary,	181	141	132	.93	3,396	512	233	2	111	6		16	7
16	Thompson St. Primary,	288	229	202	.88	8,796	700	372	11	95	13	5	24	17
17	William St. Primary,	157	125	114	.91	4,048	439	95	9	30	7	2	9	16
18	Acushnet,	102	88	81	.91	2,751	275	114	4	13	2		7	21
19	Cannonville,	74	70	64	.91	2,415	483	144		26	2	16	4	6
20	Clark's Point,	23	19	17	.90	749	59	34	2	24	2		2	2
21	North,	40	34	32	.94	1,042	66	20		5		2	2	1
22	Rockdale,	45	35	31	.89	1,891	70	52	3	3	61		3	1
23	Plainville,	25	22	20	.91	1,077	246		2	5	18		2	4
24	North Mill,	116	31	27	.87	358	207	268	27	15	2	2	2	8
25	South Mill,	119	28	25	.89	1,087	80	332		20			2	5
	Grand Totals,	5696	4220	3925	.93	107,186	12,769	13,107	249	1669	1000	128	402	469

1890 — CITY DOCUMENT No. 7.

Eleventh Annual Report

OF THE

BOARD OF HEALTH,

City and Quarantine Physician,

OF THE

CITY OF NEW BEDFORD,

TO THE

City Council,

FOR THE YEAR 1889.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS.
1890.

In Board of Aldermen,
January 1, 1890.

Received, ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
January 1, 1890.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

OFFICE OF THE BOARD OF HEALTH,

January, 1890.

To the City Council of the City of New Bedford:

GENTLEMEN,— The Board of Health herewith respectfully make their Eleventh Annual Report.

January 14, 1889. The sum of sixteen hundred dollars ($1600) was appropriated to defray the expenses of the Board for the year 1889. Members of the Board were as follows: T. Washburn Cook, term expires February, 1890; W. N. Swift, term expires February, 1890; Nathaniel Hathaway, term expires February, 1891.

The Board organized February 16, 1889, as follows: Nathaniel Hathaway, Chairman; T. Washburn Cook; W. N. Swift, Physician to the Board and Quarantine Physician; William E. Macomber, Health Inspector; Louis H. Richardson, as Inspector of Plumbing, holds his office under Civil Service Rules.

March 1, 1889. The Board appointed Susie J. Small as clerk under Civil Service Rules.

The following are the orders passed by the Board during the year 1889:

March 13, 1889. *Ordered*, That Rule Two (2) of the plumbing regulations be amended so as to read: Unless the Board shall permit otherwise, the drainage system of

a hotel, tenement house, dwelling house, stable with sleeping apartments, store, or factory in the city of New Bedford, Massachusetts, shall be constructed as follows: Section Four (4) of Rule Two (2) shall be amended by the addition of the following:

When a water closet is to be put in an old house, and the house drain is of cement or vitrified pipe, the same must be replaced by iron pipe, and vented in the same manner as new work.

March 27, 1889. *Ordered.* The keeping of swine is prohibited in the city of New Bedford, within the following limits, (Commencing at the Acushnet River, at the eastern termination of that part of Belleville Road that runs easterly from the Acushnet avenue nearest to the Nash Road, thence on said Belleville Road to Acushnet Avenue, thence southerly on said avenue to the Nash Road, thence on the Nash Road to the Perry's Neck Road, thence on Perry's Neck Road to Hathaway Road, thence westerly on said Hathaway Road to Shawmut Avenue, thence southerly on said avenue to Durfee Street, thence westerly on Durfee Street to Rockdale Avenue, thence southerly on Rockdale Avenue to Kempton Street, thence westerly on Kempton Street to Dartmouth line, thence on Dartmouth line to Clark's Cove) except by special license of this Board. The fee for issuing this license shall be one dollar ($1.00). All former regulations in regard to the keeping of swine within the city limits are hereby revoked.

April 16, 1889. The Board revoked license to keep swine held by John R. Offley.

April 24, 1889. *Ordered*, That all vessels arriving from foreign ports between the first day of May, 1889, and the first day of November, 1889, are directed to go into quarantine until visited by the quarantine physician. All pilots are required to observe and follow this order.

May 28, 1889. *Whereas*, the diseases designated as small-pox, scarlet fever, diphtheria, yellow fever, Asiatic cholera, and typhus fever are contagious and dangerous to the public health, and have been, and may easily be contracted at funerals, from dead bodies or apartments which have been infected by such diseases, it is therefore *Ordered*, that from and after this date no public funeral shall be held over the remains of any person having died of small-pox, scarlet fever, diphtheria, yellow fever, Asiatic cholera, and typhus fever. *Ordered* further that the remains of persons dying of either of said diseases shall at once be placed in a tight or sealed coffin, and shall not thereafter be exposed to view or disturbed except for burial.

Ordered, That all bodies of persons who shall have died of small-pox, diphtheria, scarlet fever, yellow fever, Asiatic cholera, or typhus fever shall be buried on the same or next day after death, and it shall not be lawful to invite or permit at the funeral, or at any services connected therewith, any person whose attendance is not necessary, or to whom there is danger of contagion thereby.

It shall be the duty of every undertaker having notice of the death of any person within the city of New Bedford, of small-pox, scarlet fever, diphtheria, yellow fever, Asiatic cholera, or typhus fever, or of the bringing of the dead body of any person who has died of any such disease into such city, to give immediate notice thereof to this Department. And no undertaker shall retain, or expose, or assist in the retention or exposure of the dead body of any such person, except in a coffin or casket properly sealed; nor shall he allow any such body to be placed in any coffin or casket unless the same be immediately permanently sealed. Nor shall he assist in the public or church funeral of any such person.

Ordered, That the body of a person who shall have died of small-pox, scarlet fever, diphtheria, yellow fever, Asiatic cholera, or typhus fever shall not be disinterred for one year after the date of burial.

July 24, 1889. *Ordered*, That hereafter no attention would be paid to anonymous complaints and communications received at this office.

August 24, 1889. *Ordered*, That on and after September 1, 1889, within the limits of the city of New Bedford, no privy, privy vault or cesspool shall be constructed and used on any property that abuts on any street through which a common sewer has been laid.

October 15, 1889. *Ordered*, No connection with public sewer shall be made without a permit from the Board of Health. No permit to enter public sewer for premises already connected, shall be given unless the plumbing of such premises is in accordance with the Rules of the Board of Health.

October 29, 1889. Susie J. Small, having served for a probationary period of six months as required by the Civil Service Rules, and her conduct and capacity having been found satisfactory, she was appointed a clerk in the permanent force of this department.

November 21, 1889. A case of glanders was reported at this office in horse belonging to Franklin Hart, 40 Washburn Street; the Board authorized Dr. D. C. Ashley, Veterinary Surgeon, to investigate the matter. Dr. Ashley reported the case of malignant type, and that it should have immediate attention. The Board communicated with A. W. Cheever, Secretary to Cattle Commissioners, who came at once to this city. Mr. Cheever ordered the Board of Health to cause the horse to be killed, and its carcass safely disposed of by burial. The Board authorized Dr. Ashley to perform the work.

Following is an abstract from the report of Louis H. Richardson, Inspector of Plumbing:

During the year ending January 1, 1890, the Inspector has visited 235 new buildings in all of which the plumbing has been placed in full accord with the rules and regulations of the Board. He has also inspected the alterations in 305 cases of old plumbing, reinspected 92.

Much advice has been given in making suggestions in regard to new work, and alterations to old; a great deal of the inspector's time has been devoted to this matter. The plumbers have now become well posted regarding the prescribed rules and regulations of the Board, and most of them endeavor to conform to all rules and to cooperate with this Board in every possible way. Occasionally some irresponsible workman endeavors to shirk his work as much as possible. Such cases are promptly met and the work required to be brought to the proper standard previous to passing inspection. This involves much more additional labor to accomplish than it would to have done the work properly at first; but such cases occur with less frequency than they did a year ago.

The number of privies removed during the year 1889 by order of the Board was 31.

Following are the number of permits granted by the Board:

To empty privy vaults and cesspools, 58.

To enter sewers, 341.

To reinter bodies, 72.

The number of applications for keeping swine during the year 1889 was 172. Of this number only 151 licenses were granted.

Abstract of the report of the Health Inspector, William E. Macomber, is as follows:

The number of nuisances caused by defective and overflowing privy vaults and cesspools abated, 284.

Defective sink drains abated, 75.
Filthy yards and cellars abated, 49.
Swill in ash barrels abated, 260.
Filthy pig pens and barn cellars abated, 26.
Filthy tenements abated, 7.
Filthy hen houses abated, 16.
Filthy sand catchers abated, 8.
Stagnant water in meadows abated, 5.
Garbage dumped in street abated, 4.
Dead animals buried, 17.
Notices served, 141.
Number of inspections, 2390.

The number of nuisances has increased the past year, probably owing somewhat to the unusually wet season and the defective condition of the vaults and cesspools, they not being water tight, causing them to constantly overflow.

Offensive privy vaults still, as in the past, are the largest item in the list of nuisances. This will, no doubt, continue to be the case until they are driven out of existence. Many complaints are made to the Board on account of neighbor's quarrels, causing a little missionary work on my part.

The Board believes that the issuing of licenses to keep swine and the regular fortnightly inspection of the premises where swine were kept have abated the nuisance previously existing from this source.

This Board believes that the sanitary condition of our city is in most respects satisfactory. The large number of privies existing are a constant source of nuisance. The number, however, is steadily decreasing, and no new ones are allowed to be built on premises which abut on a street in which there is a public sewer.

The most serious nuisance and one at present impossible to control is caused by depositing swill and garbage in ash barrels, and its subsequent use in making land. Where

such swill and garbage mixed with ashes is deposited, in the opinion of the Board disease may be caused by its being dug over at any subsequent time. The only method by which this nuisance can be effectually abated is by a separate collection of the swill by the city.

By reference to the Report of the Inspector of Plumbing, it is evident how large an amount of work has been accomplished in this department during the year. The importance of this work cannot be overestimated. Nothing has more influence for good on the public health than a properly constructed system of drainage and sewerage disposal. The inspection of plumbing work both old and new will in the coming year require the whole time of at least one man. The Board intends to investigate, so far as possible, the nuisances caused by defects in the plumbing of old houses.

FINANCIAL STATEMENT FOR 1889.

	Cr.		
By appropriation,			$1,600.00
	Dr.		
Salaries,		$958.33	
Incidentals,		319.27	1,277.60
	Cr.		
By balance,			$322.40

REPORT OF THE CITY PHYSICIAN.

DEATHS REPORTED TO THE BOARD OF HEALTH FOR THE YEAR 1889.

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Anæmia Pernicious	1	2	..	..	1	..	..	1	..	..	..	..	5
Atelectasis	..	..	..	..	..	..	1	1	..	1	..	..	3
Abscess	..	..	1	1	..	..	..	1	2	..	..	..	5
Apoplexy	2	2	..	6	3	3	..	3	4	2	2	..	27
Accident, Burns	1	..	1	..	..	..	..	1	..	..	..	..	3
Accident, Drowning	1	1	..	1	..	1	..	1	..	1	..	1	7
Accident, Injuries	1	..	..	1	..	..	..	..	1	1	..	..	4
Accident, Gunshot	..	..	..	..	..	1	..	..	..	..	..	..	1
Accident, Suffocation	1	..	..	..	..	..	..	..	..	..	1	..	2
Addison's Disease	..	..	..	..	..	..	..	..	1	..	..	..	1
Asthma	..	..	..	1	..	..	..	..	..	..	..	..	1
Alcoholism	..	1	..	..	..	..	..	..	..	..	..	..	1
Brain Disease	..	..	..	1	1	1	..	..	..	..	..	..	3
Bright's Disease	2	1	..	2	2	1	1	1	1	2	..	2	15
Bronchitis, capillary	1	..	1	..	..	..	..	..	..	2	..	1	5
Bronchitis	3	..	2	..	..	..	2	..	1	4	1	2	15
Cancer	1	..	1	..	1	1	5	3	..	..	..	..	12
Cancer of stomach	2	..	..	..	1	1	1	..	..	..	..	1	6
Cancer of intestines	1	..	..	..	1	..	..	..	..	..	..	..	2
Cancer of Uterus	..	..	..	..	2	..	1	..	..	..	..	..	3
Cancer of breast	..	..	..	..	..	..	..	1	..	..	..	1	2
Convulsions	3	1	1	..	1	1	2	3	3	2	2	..	19
Croup	..	1	..	..	2	..	..	..	..	..	1	2	6
Cyanosis	..	..	1	..	..	..	..	..	1	..	..	..	2
Cystitis	..	..	..	..	1	..	..	..	..	..	..	1	2
Cholera infantum	..	..	..	..	1	2	22	7	11	2	1	..	46
Cirrhosis of liver	..	..	1	1	..	..	..	1	..	..	..	1	4
Debility	4	4	3	6	2	3	9	7	3	5	1	4	51
Diphtheria	1	4	4	4	4	..	..	..	1	1	1	..	20
Diabetes, mel	..	..	..	1	..	..	..	..	1	..	..	..	2
Dysentery	..	..	..	..	..	..	..	3	4	1	..	1	9
Dropsy	..	..	..	..	..	..	..	1	..	..	..	..	1
Erysipelas	..	..	1	..	1	..	..	..	..	..	..	..	2
Epilepsy	..	..	..	..	..	1	..	..	..	..	..	..	1
Enteritis	1	..	..	1	..	1	1	..	2	1	1	..	8
Enteritis, gastro	..	..	1	..	1	..	4	..	3	1	1	..	11
Entero-colitis	..	..	..	1	..	2	10	14	6	1	..	..	34
Endo-carditis	..	..	..	..	..	..	1	..	..	..	..	..	1
Fever, typhoid	1	..	..	..	1	..	2	6	2	4	1	2	19
Fever, brain	..	..	..	1	1	..	1	..	..	..	..	..	3
Fever, scarlet	..	..	1	..	..	..	..	..	..	..	..	..	1
Fever, puerperal	..	..	..	1	..	..	..	..	..	..	..	..	1
Gangrene, senile	..	..	1	..	..	..	..	..	..	2	1	..	4
Heart disease	6	6	12	5	6	11	7	4	3	5	7	6	78
Hystero-epilepsy	..	..	..	..	..	..	..	..	..	..	1	..	1
Hydrocephalus	..	..	..	1	..	..	1	..	1	..	1	1	5

DEATHS REPORTED — *Continued.*

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Hemorrhage	..	..	1	1	..	1	..	..	..	..	..	..	3
Hemorrhage from bladder	..	..	..	1	..	..	..	..	..	..	..	.	1
Hemorrhage from umbilical cord	..	..	..	1	..	..	..	..	..	..	..	..	1
Hemorrhage from intestines	..	..	..	..	..	..	..	..	1	..	..	..	1
Hemorrhage from purpura	..	..	.	.	..	..	..	..	..	..	1	..	1
Hemorrhage from lungs	.	..	.	..	.	..	..	..	.	..	..	1	1
Injury to spine	.	.	..	..	1	..	..	.	..	..	..	..	1
Injury to multiple	..	1	..	..	..	..	..	..	..	..	..	..	1
Intestinal obstruction	1	.	.	.	.	.	1	1	.	.	.	1	4
Meningitis, tubercular	1	2	1	2	3	3	4	5	4	2	2	1	30
Measles	..	..	..	1	..	1	..	..	..	..	..	..	2
Malformation of heart	..	..	..	1	..	..	..	..	..	..	..	..	1
Myelitis	..	1	..	..	..	..	..	..	..	.	..	..	1
Œdema of glottis	1	..	..	..	..	..	..	..	..	..	..	1	2
Œdema of lungs	..	..	1	.	1	..	..	..	.	..	..	..	2
Old age	..	1	1	7	.	5	1	1	5	4	1	4	30
Osteosarcoma	..	.	.	.	.	..	..	..	..	1	..	..	1
Pneumonia	3	1	5	6	3	6	3	1	3	7	9	5	52
Premature birth	..	..	.	1	.	1	2	1	..	1	2	..	8
Phthisis, pul	6	7	3	10	4	2	7	6	4	9	6	5	69
Paralysis	4	2	2	1	1	1	1	4	..	1	..	3	20
Peritonitis	..	..	..	..	..	1	.	.	1	1	1	2	6
Pyæmia	..	.	..	..	..	..	1	..	..	..	..	.	1
Pleurisy	.	..	..	..	..	..	..	1	..	..	..	..	1
Septicæmia	1	2	1	1	1	..	..	..	..	..	1	..	7
Spina bifida	..	1	..	..	..	..	..	..	..	..	..	1	2
Suicide, Arsenic	..	..	1	..	.	..	..	.	.	..	..	..	1
Suicide, Opium	.	..	..	.	..	..	1	..	..	..	..	..	1
Suicide, Rough on rats	..	..	..	..	..	..	..	1	..	..	..	..	1
Suicide, Pistol shot	..	..	..	..	..	..	1	..	..	..	..	..	1
Suicide, Hanging	..	..	..	..	..	..	..	1	..	.	..	..	1
Tuberculosis	..	..	..	3	..	2	1	1	1	..	..	..	8
Tabes, Mesenterica	..	.	1	..	..	..	..	..	..	..	..	..	1
Uræmia	..	..	..	1	..	..	..	.	..	..	..	..	1
Whooping cough	..	1	..	.	..	..	2	1	1	..	3	1	9

Whole number of deaths for 1889, 727.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Stillborn	4	5	6	3	1	7	4	4	5	4	4	3	50
Under 5 years	14	9	20	20	19	20	63	48	45	22	25	11	316

REPORT OF CONTAGIOUS DISEASES.

DISEASES.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Diphtheria	8	13	16	11	15	5	..	4	..	1	2	..	75
Scarlet Fever	3	..	3	..	4	1	..	..	..	1	2	..	14
Typhoid Fever	4	7	6	..	..	1	1	39	16	13	3	1	90

Whole number, 179.

During the past year 40 vaccinations have been made by the Physician to the Board.

W. N. SWIFT, Physician to Board.

REPORT OF NEW BEDFORD QUARANTINE FOR 1889.

From May 1st to November 1st, 1889, boarded 20 vessels arriving from foreign ports.

No vessels were detained in quarantine, as they brought no cases of contagious diseases.

W. N. SWIFT, Quarantine Officer.

NATH. HATHAWAY, Chairman,
W. N. SWIFT,
T. W. COOK,
} Board of Health.

1890 — CITY DOCUMENT No. 8.

THE

AUDITOR'S ANNUAL REPORT

OF THE

Receipts and Expenditures

OF THE

City of New Bedford,

INCLUDING

Report of City Treasurer and Collector of Taxes,

FOR THE YEAR 1889.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS.
1890.

City of New Bedford,
Office of the City Auditor,
March 12, 1890.

To the Honorable the City Council of New Bedford:

Gentlemen,— Herewith I have the honor to submit the annual Report of all the Receipts and Expenditures of the city for the financial year ending on the first Monday in January, 1890, together with a statement of the city debt, a schedule of the real and personal property belonging to the city and the estimated value thereof, and such other statements as I have deemed of interest.

Very respectfully,

WILLIAM B. TOPHAM,
City Auditor.

AUDITOR'S REPORT.

JAMES H. HATHAWAY, ESQ.,
CITY TREASURER,

DR.

1889, Jan. 7. To balance of cash,		$39,825.06
Appropriations, general, 1889,	$506,760.93	
" " 1888,	7,018.90	
" " 1887,	4,060.64	
" " 1886,	203.39	
" special, 1888,	105,000.00	
Cemeteries,	2,670.00	
Cemetery Funds,	3,135.00	
Com. of Mass., Chap. 252,	3,186.56	
" " 301,	3,975.85	
Fire Department,	1,076.57	
Free Public Library, Trustees,	3,648.00	
" " Dog Fund,	1,043.23	
Highways and Streets,	17,030.72	
Incidentals,	27.50	
N. B. School Committee, (Howland Fund,)	3,000.00	
" " (Jona. Bourne Prize Fund,)	60.00	
N. B. Water Works,	69,666.41	
Police Department,	6,085.63	
Poor Department,	10,864.64	
Public Debt,	605.00	
Public Schools, Incidentals,	14.59	
" " Dog Fund,	1,043.24	
Real Estate Tax Account,	422.93	
Sewers, General Account,	4,188.68	
" County Street, No. 2,	21.50	
" Oak Street,	56.54	
" So. Front Street, No. 2,	56.50	
Temporary Loan,	490,000.00	
Unappropriated Funds,	79,745.33	1,324,668.28
		$1,364,493.34

AUDITOR'S REPORT.

In Account with the

City of New Bedford.

	Cr.
Board of Health,	$1,277.60
Cemeteries,	5,912.35
City Stable and Lot,	6,251.14
Com. of Mass., Chap. 252,	6,999.28
" " 301,	4,491.50
" " 298 of 1889,	476.00
Court Judgments,	2,778.13
Dartmouth St. School-House Ex.,	7,177.35
Division St. School-House and Lot,	6,000.00
Engine-House and Lot, Durfee St.,	8,085.43
Fire Department,	37,313.53
Free Public Library,	5,724.36
" " Trustees,	5,930.50
" " Dog Fund,	1,439.48
Harrington School-House and Lot,	21,098.02
Highways and Streets,	97,521.73
Incidentals,	23,196.71
Lighting the Streets,	27,056.52
N. B. & Fairhaven Bridge,	6,373.51
N. B. School Committee, (Howland Fund,)	2,988.52
" " (Jona. Bourne Prize Fund,)	60.00
N. B. Water Works,	68,985.49
Police Department,	65,098.36
Poor Department,	41,641.44
Printing, Binding and Stationery,	5,869.62
Public Debt,	124,750.86
Public Schools, Incidentals,	31,632.90
" " Pay of Teachers,	81,663.66
" " Repairs of Buildings,	4,626.20
" " Dog Fund,	113.63
Real Estate Tax Account,	379.88
Repairs of City Property,	3,357.63
Salaries,	13,828.67

School-House at Head of River,	3,062.20	
Sewers, General Account,	27,974.98	
" Acushnet Avenue, No. 5,	652.49	
" Cedar Grove Street,	1,137.89	
" Clinton Street,	653.93	
" County Street, No. 2,	2,606.62	
" County Street, No. 3,	443.17	
" Division Street, No. 2,	616.71	
" Elm Street, No. 2,	8.75	
" Gifford Street,	1,141.21	
" Hall Street,	7.05	
" James Street,	2,167.39	
" Kempton Street, No. 2,	1,754.17	
" Liberty Street,	771.08	
" Maitland Street,	315.80	
" Mill Street, No. 2,	716.50	
" Oak Street,	7,267.64	
" Orchard Street,	263.00	
" Pearl and Willis Streets Extension,	7,152.82	
" Rivet Street, No. 2,	3,953.97	
" Rivet Street, No. 3,	498.01	
" Shawmut Avenue,	657.16	
" South Front Street, No. 2,	1,159.65	
" South Water Street, No. 2,	116.09	
" Washington Street,	2,414.99	
Sinking Funds,	23,880.00	
Temporary Loan,	525,000.00	
Truant School,	2.374.64	$1,338,867.91
Balance, Cash in Treasury,		25,625.43
		$1,364,493.34

EXPENDITURES IN DETAIL.

SALARIES.

DR.

Walter Clifford, Mayor,	$1,500.00	
James H. Hathaway, Treasurer and Collector,	2,400.00	
Daniel B. Leonard, City Clerk,	1,000.00	
William B. Topham, City Auditor,	1,000.00	
Arthur E. Perry, City Solicitor,	198.33	
Lemuel Le B. Holmes, City Solicitor,	501.67	
William R. Sherman, Sealer Weights and Measures,	365.00	
David B. Willcox, Chairman Assessors,	708.30	
Charles D. Tuell, Assessor,	600.00	
William A. Russell, Assessor,	600.00	
William A. Mackie, Clerk Common Council,	250.00	
Augustus D. Piper, City Messenger,	650.00	
Isaac Barnes, Bell Ringer,	125.00	
Clifford Baylies, Supt. City Clock,	18.75	
James S. Kelley, Supt. City Clock,	56.25	
Henry L. Pitman, Harbor Master,	125.00	
Daniel C. Ashley, Inspector Milk and Provisions,	530.37	
Frederick Macy, Inspector of Buildings,	200.00	$10,828.67
BOARD OF HEALTH:		
Dr. William N. Swift,	$300.00	
Nathaniel Hathaway,	300.00	
Thomas W. Cook,	300.00	900.00
REGISTRARS OF VOTERS:		
Thomas F. Desmond,	$400.00	
Emanuel Sullavou,	400.00	
Herbert A. Blackmer,	400.00	
Daniel B. Leonard,	300.00	1,500.00
Amount carried forward,		$13,228.67

Amount brought forward,		$13,228.67
Board of Aldermen:		
Luther G. Hewins, Jr.,	$100.00	
Charles F. Shaw,	100.00	
Benjamin F. Brownell,	100.00	
Edward T. Pierce,	100.00	
James Delano,	100.00	
John Welch,	100.00	600.00
		$13,828.67
To Transfer to balance,		211.33
		$14,040.00

Cr.

By appropriation,	$14,040.00

NEW BEDFORD SCHOOL COMMITTEE.

HOWLAND FUND.

DR.

Ambrose, F. M., books,	$46.25
Appleton, D. & Co., books,	1.88
Anthony, E. & Sons, advertising and supplies,	4.93
American Supply Co., object supplies,	1.23
Almy, Sarah W., photographs,	3.00
Boston School Supply Co., books, charts, &c.,	149.32
Barnes, A. S. & Co., books,	4.38
Bill, Henry Pub. Co., books,	17.00
Bay State Pub. Co., books,	2.40
Bliss & Nye, supplies,	30.15
Bliss, Geo. H., physical apparatus,	2.80
Bates, Mrs. A. E., roller skates,	.99
Borden, Chas. F., wood work for apparatus,	7.50
Chase, W. I., periodicals,	11.00
Carson, C. J. R., janitor's services, &c.,	10.00
Coffin Bros., boxes for models,	38.98
Cyclostyle Co., material for cyclostyle,	30.40
Ditson, Oliver, books,	18.75
Dunton, Dr. Larkin, lecture,	13.75
Douglass, F. M., corks,	.75
Dews, Edwin, journal,	2.25
Educational Pub. Co., books,	13.00
Eriner & Amend, physical apparatus,	25.59
Eastern Edu. Bureau, fraction box,	10.00
Ginn & Company, books, globe, &c.,	46.20
Gage, Alfred P., physical apparatus,	3.50
Goodnow & Wightman Mfg. Co., physical apparatus,	2.52
Greeley, E. S. & Co., physical apparatus,	2.35
Gammons, Lottie M., covering books,	25.25
Gardner, T. M., messenger service,	7.25
Gray, Chas. A., freight and carting,	9.91
Hutchinson, H. S. & Co., books, supplies,	224.94
Hatch, W. E., books, &c.,	4.82
Houghton, Mifflin & Co., books,	1.96
Heath, D. C. & Co., books, maps,	46.86
Hadley, Frank R., rubber sheeting,	.75
Holden Book Cover Co., book covers,	28.72
Haskell & Tripp, sewing materials,	1.20
Hatch & Co., express,	26.85
Hart, Thos. M., flags,	25.50
Inman, H. S., books,	20.00
Ivison, Blakeman & Co., books,	214.25

Interstate Pub. Co., books,	2.93	
Knowlton, D. H. & Co., periodicals,	3.20	
Kellogg, E. L. & Co., periodicals, &c.,	16.25	
Kane, D. J. & Bro., binding books,	52.55	
Kirby, Wm. A., tables for sewing ex.,	5.80	
Leach, Shewell & Sanborn, books, &c.,	45.32	
Lee & Shepard, books,	140.51	
Lawton, Wm. C., lecture.	2.89	
Lawton, Jas. M., Jr., object supplies, pictures,	15.90	
Mason, Perry & Co., periodicals,	43.68	
Mercury Pub. Co., printing, advertising,	2.25	
Metcalf, R. C., lecture,	13.75	
Morgan, Thos. J., lecture,	12.95	
McAllister, T. H., gelatine plates,	.50	
Mosher, C. E. E., repairing apparatus,	10.25	
Merrick, Emma J., covering books,	18.90	
O. C. R. R. Co., freight,	1.90	
Peirce, George, care of musical instruments,	305.25	
Perry, Geo. S., object-drawing supplies, covering paper,	156.00	
Purrington & Brown, vases,	3.30	
Potter, Frances, covering books,	35.15	
Ritchie, E S. & Sons, physical apparatus,	30.95	
Richter, Geo. H. & Co., neostyles,	31.80	
Stockin, A. C., books,	12.30	
Small, Willard, books,	58.37	
Silver, Burdett & Co., books, maps,	782.35	
Sullings, Kingman & Co., supplies,	4.41	
Sherman, C. R. & Son, physical apparatus,	1.44	
Taber, Robt. W., books,	11.64	
Thornton, Rebecca, covering books,	16.50	
Van Antwerp, Bragg & Co., books,	8.40	
Writers' Pub. Co., books,	2.00	$2,988.52
1890, Jan. 6. To balance,		2,908.14
		$5,896.66

Cr.

1889, Jan. 7. By balance,	$2,896.66	
By income from educational bequest of Sylvia Ann Howland,	3,000.00	$5,896.66

Cr.

1890, Jan. 6. By balance,	$2,908.14

TRUANT SCHOOL.

Dr.

Anthony, E. & Sons, paper,	$6.00	
Bliss & Nye, crockery,	4.28	
Chace, Nellie A., teacher,	157.50	
Davis, G. D., services,	104.00	
Davis, J. & Co., shoes, &c.,	65.93	
Fay, Julia A., teacher,	431.75	
Grinnell, Edmund, weighing coal,	.49	
Hart & Akin, coal, &c.,	50.19	
Knowles & Co., dry goods,	4.79	
Moore & Diman, dry goods,	1.15	
Poor Dept., board, &c.,	1,450.52	
Sherman, W. H., carriage hire,	6.00	
Sullings, Kingman & Co., lantern,	.60	
Tripp, S. A., repairing, &c.,	44.49	
Wing, J. & W. R. & Co., clothing, &c.,	46.95	$2,374.64

Cr.

By appropriation, general,	$1,500.00	
By appropriation, special,	500.00	
By transfers to balance,	374.64	$2,374.64

FREE PUBLIC LIBRARY.

Dr.

Salaries:

Ingraham, R. C., librarian,	$2,250.00	
Gifford, W. L. R., assistant librarian,	1,200.00	
Brown, M. E., assistant,	540.00	
Gammons, L. M., assistant,	33.00	
Gammons, S. H., assistant,	540.00	
Merrick, E. J., assistant,	113.00	
Merrick, Josie A., assistant.	540.00	$5,216.00

MISCELLANEOUS:

Almy & Milne, subscription,	$6.00	
Alta-California, subscription,	4.50	
Anthony, E. & Sons, printing,	3.75	
Briggs & Lawrence, furniture,	10.50	
Dews, Edwin, binding,	181.24	
Ellis, L. B., picture frame,	28.50	
Jenney & Buffington, tablet,	12.70	
Kane, D. J. & Bro., binding,	6.75	
Library Bureau, subscription,	8.00	
Mercury Publishing Co., printing,	241.27	
Providence Journal, subscription,	2.65	
Woman's Journal, subscription,	2.50	508.36
		$5,724.36

CR.

By appropriation,	$5500.00	
Transfer,	224.36	$5,724.36

FREE PUBLIC LIBRARY — DOG FUND.

DR.

Ames, Yorick W., janitor,	$540.00	
Borden, C. F., catalogue cases,	30.96	
Briggs & Lawrence, furniture,	42.00	
Ingraham, R. C.,	750.00	
Pope, A. P., carpentry,	10.54	
Wing, C. F., carpet,	65.98	$1,439.48
1890, Jan. 6. To balance,		173.82
		$1,613.30

CR.

1889, Jan. 7. By balance,	$570.07	
By amount received from County Treasurer,	1,043.23	$1,613.30

CR.

1890, Jan. 6. By balance,	$173.82

FREE PUBLIC LIBRARY — TRUSTEES.

(INCOME DERIVED FROM TRUST FUNDS.)

DR.

BOOKS, PERIODICALS, NEWSPAPERS, BINDING, &C.:

Academy of Natural Sciences,	$25.00
Allyn & Bacon,	2.93
American Chemical Journal,	4.00
American Journal of Mathematics,	5.00
American Journal of Philology,	3.00
American Polytechnic Co.,	75.00
American Publishing Co.,	5.00
Anthony, E. & Sons,	6.00
Appleton, D. & Co.,	23.40
Austin, J. O.,	5.00
Balch Bros.,	5.50
Bancroft Whitney Co.,	28.00
Boon, E. P.,	5.00
Borden, C. F.,	170.59
Bryant, H. W.,	8.00
Caspar, C. N.,	8.30
Chadbourne, S. H.,	2.91
City Treasurer,	139.80
Clark, A. S.,	6.51
Clarke, W. B. & Co.,	1.40
Co-op. Newspaper Co.,	2.50
Cushing, William,	30.00
Cullen, J. B. & Co.,	3.00
Dews, Edwin,	336.06
Egypt Exploration Fund,	5.00
Electrical World,	3.00
Elliot, A. M.,	8.00
Ellis, G. H.,	2.00
Ellis, L. B.,	9.00
Francis, D. G.,	13.32
Greenough, W. A. & Co.,	2.00
Harper, F. P.,	15.80
Henry Bill Publishing Co.,	6.50
Hickox, J. H.,	5.00
Houghton, Mifflin & Co.,	5.00
Hutchinson, H. S. & Co.,	851.86
Inman, H. S.,	152.50
Kane, D. J. & Bro.,	95.35
Lawrence, L. L.,	10.24
Lawton, J. M., Jr.,	27.08

Lee, L. A.,	1.50	
Lend-a-Hand Pub. Co.,	2.00	
Little, Brown & Co.,	1,468.48	
Littlefield, G. E.,	251.79	
Luzerne Legal Register,	7.79	
Macdonald, Wm. & Co.,	8.75	
Maine Historical Register,	3.00	
Mass. Historical Society,	6.00	
McDonough, Joseph,	19.93	
Mercury Publishing Co.,	6.00	
Munsell, Joel Sons,	5.00	
Narragansett Historical Pub. Co.,	2.00	
Nash, E. W.,	10.00	
Nash, H. C.,	6.00	
National Pub. and Printing Co.,	1.55	
N. E. Magazine Co.,	3.75	
N. E. Pub. Co.,	2.50	
Noyes, H. D. & Co.,	24.30	
Peet, S. D.,	4.00	
Publisher's Weekly,	7.50	
Q. P. Index,	1.50	
Raymond, E. P.,	3.00	
Rider, S. S., Agent,	10.50	
Roberts, S. R., Treas.,	20.00	
Rodman, T. R.,	10.00	
Roffe, A. H. & Co.,	217.45	
Sampson, Murdock & Co.,	14.00	
Schoenhof, Carl,	131.09	
Scribner, Charles Sons,	4.00	
Scudder, S. H.,	45.00	
Soldiers' and Sailors' Historical Society,	15.00	
Stechert, G. E.,	2.59	
Studies in History and Political Science,	4.10	
Taber, Robert W.,	875.46	
Taylor, G. A.,	5.25	
Taylor, I. J.,	17.00	
Van Nostrand, D. & Co.,	2.15	
Waldron, C. D.,	1.00	
Whitefield, E.,	15.00	
Winslow, W. C.,	10.00	
Yorstow Bros.,	540.00	
Zahen, S. H. & Co.,	31.02	$5,930.50
1890, Jan. 6. To balance,		7,089.43
		$13,019.93

Cr.

1889, Jan. 7. By balance,	$9,371.93	
By cash receipts as per Treasurer's report,	3,648.00	$13,019.93

Cr.

1890, Jan. 6. By balance.	$7,089.43

PUBLIC SCHOOLS — PAY OF TEACHERS.

DR.

HIGH SCHOOL.

Ray Greene Huling,	$2,600.00	
Charles T. Bonney, Jr.,	1,600.00	
Charles R. Allen,	1,340.00	
Sarah D. Ottiwell,	900.00	
Elizabeth P. Briggs,	895.20	
Lydia J. Cranston,	852.00	
Mary E. Austin,	900.00	
Lucretia N. Smith,	900.00	
Emma H. Wheeler,	737.50	
Emma K. Shaw,	720.00	
Mabel Washburn,	160.00	
Mabel A. Spooner,	192.00	$11,796.70

GRAMMAR SCHOOLS.

FIFTH STREET:

Allen F. Wood,	$1,794.00	
Mary A. Kane,	550.00	
Sarah A. Carr,	550.00	
Sarah E. Stoddard,	550.00	
Mary E. Allen,	550.00	
Sarah W. Almy,	550.00	
Lydia A. Macreading,	550.00	
Elizabeth B. Brightman,	550.00	
Helen L. Hadley,	550.00	
Janet Hunter,	550.00	
Helena Kennedy,	315.00	
Lena A. Chubbuck,	500.00	
Nancy H. Brooks,	210.00	$7,769.00

MIDDLE STREET:

George H. Tripp,	$1,797.00	
Kate Commerford,	411.75	
Mary R. Hinckley,	550.00	
Agnes J. Dunlap,	542.00	
Clara S. Vincent,	550.00	
Hattie F. Hart,	544.00	
Mabel W. Cleveland,	542.00	
Lucy B. Fish,	549.00	
Clara B. Watson,	539.00	
Maria B. Clark,	520.00	6,544.75

PARKER STREET:

Charles E. E. Mosher,	$1,800.00	
Eliza J. D. Shepherd,	550.00	
Martha A. Hemenway,	550.00	
Helen M. Gordon,	550.00	
Sarah L. Spare,	330.00	
Emma B. McCullough,	106.89	
S. Flora Spare,	123.75	
Mariana N. Richmond,	209.00	
Anna L. Jennings,	550.00	
Emma A. McAfee,	550.00	
Anna W. Braley,	412.50	
Josephine Almy,	550.00	
Emma C. Nash,	549.00	
May L. Pettey,	495.00	
Mary E. Sturtevant,	479.00	
Lizzie E. Omey,	420.00	
Emma B. Allen,	378.31	
Emily A. Delano,	154.38	$8,757.83

THOMPSON STREET:

Katharine N. Lapham,	$718.00	
Mary A. Macy,	542.00	
Abby F. Sullivan,	550.00	
Chella F. Carpenter,	458.01	
Alice M. Holdsworth,	120.00	2,388.01

HARRINGTON TRAINING SCHOOL.

Josephine B. Stuart,	$476.00
Anna W. Braley,	162.50
Alice A. Taylor,	56.80
Annie F. Smith,	60.00
Alice P. Terry,	56.40
Annie L. Brownell,	59.20
Anna I. Dexter,	56 80
Lucy D. Ashley,	56.00
Sara L. Tallman,	50.90
Annie G. Brawley,	2.80
Myra A. Leach,	38.40
Rachel L. Denham,	35.70
Edith K. Weeden,	45.30
Gertrude M. Robinson,	43.80
Lena B. Hamblin,	34.80
Grace Covell,	14.10

Grace Carver,	33.60	
Mary B. Pasho,	36.30	
Mary G. Bonney,	43.60	
Harriet S. Gardner,	36.00	
Kate Sweet,	30.30	$1,429.30

PRIMARY SCHOOLS.

THOMPSON STREET:

Helen C. Allen,	$315.00	
Susan M. Tompkins,	220.00	
Annie C. O'Connor,	485.00	
Helen J. Kirk,	484.20	
Grace H. Potter,	460.00	
Sarah A. Winslow,	316.00	
Abby R. Johnson,	44.80	2,325.00

LINDEN STREET:

Elizabeth P. Spooner,	$548.40	
Lucy S. Leach,	348.14	
Isabella Luscomb,	485.00	
Isadore Foster,	483.40	1,864.94

MERRIMAC STREET:

Sarah H. Hewins,	$550.00	
Addie West,	485.00	
Hattie S. Damon,	458.40	1,493.40

MAXFIELD STREET:

Mary B. White,	$550.00	
Sarah E. Field,	485.00	
Annie E. Pearce,	485.00	
Bessie P. Nash,	471.00	1,991.00

CEDAR STREET:

Annie S. Homer,	$558.40	
Abby D. Whitney,	484.20	
Emma B. Allen,	105.69	
Willetta B. Nickerson,	475.00	
Annie L. Edwards,	460.00	
Bessie P. Peirce,	200.00	
Abby R. Johnson,	121.60	2,404.89

ACUSHNET AVENUE:

Jane E. Gilmore,	$570.00	
Sarah E. Kirwin,	485.00	
Susan M. Lucas,	315.55	

Mariana N. Richmond,	285.00	
Emma B. McCullough,	302.64	
Carrie S. Silva,	410.00	
Helen C. Allen,	200.00	
Clara C. M. Gage,	190.00	
Regina M. Paul,	76.00	$2,834.19

KEMPTON STREET:

Eleanor Commerford,	$330.00	
Bessie P. Peirce,	285.00	
Ida G. Howard,	284.20	
Kate E. Cleary,	284.20	1,183.40

WILLIAM STREET:

Nancy H. Brooks,	$300.00	
Eleanor Commerford,	218.40	
Amelia Lincoln,	485.00	
Mary J. Graham,	485.00	
Clara C. M. Gage,	270.00	
Kate E. Cleary,	200.00	1,958.40

FOURTH STREET:

Sarah H. Cranston,	$536.00	
Eliza H. Sanford,	485.00	
Sarah E. Sears,	470.60	
Annie L. Macreading,	435.00	
Alice A. Taylor,	192.00	
Ida G. Howard,	192.50	2,311.10

DARTMOUTH STREET:

Isadore F. Eldridge,	$550.00	
M. Eva Schwall,	485.00	
Sara H. Kelley,	260.47	
Annie M. Carpenter,	485.00	
Abby R. Johnson,	84.80	
Lena B. Hamblin,	150.40	2,015.67

GROVE:

Jane C. Thompson,	$550.00	
Sarah E. Tuell,	457.80	
Hattie L. Finlan,	473.00	
Nellie W. Davis,	485.00	
Mary Barstow,	410.00	2,375.80

CEDAR GROVE STREET:		
Lucy F. Clark,	$553.60	
Carrie A. Shaw,	460.00	
Flora E. Estes,	460.00	
Emily A. Delano,	288.22	
Annie G. Brawley,	339.60	
Mary J. Eldridge,	162.50	$2,263.92
ARNOLD STREET:		
Susan M. Tompkins,	$345.00	345.00

MILL SCHOOLS.

NORTH:		
Emma R. Wentworth,	$666.50	
Sara L. Tallman,	75.00	741.50
SOUTH:		
Lucy J. Remington,	$660.00	660.00

COUNTRY SCHOOLS.

ACUSHNET:		
Charlotte C. Carr,	$700.00	
Belle B. Wheeler,	410.00	
Lucy D. Ashley,	200.00	
Caroline O. Pierce,	178.13	1,488.13
CANNONVILLE:		
Addie J. McFarlin,	$510.00	
Lillie C. Tillinghast,	410.00	920.00
CLARK'S POINT:		
Mary B. Pasho,	$241.20	
Annie B. Parker,	158.00	399.20
NORTH:		
Mary Ashley,	$550.00	550.00
PLAINVILLE:		
Mary Chace,	$465.40	465.40
ROCKDALE:		
Susan C. Graffam,	$435.00	
Alice P. Terry,	148.00	583.00

SPECIAL TEACHERS.

DRAWING:		
Arthur J. Cumming,	$1,185.91	
Adelaide B. Hyde,	479.00	
Fannie E. Ashley,	240.00	$1,904.91
SINGING:		
Fred L. Diman,	$1,431.25	1,431.25
MILITARY INSTRUCTOR:		
John K. McAfee,	$277.50	277.50
SEWING:		
Carrie H. Richmond,	$457.14	
Eliza A. Smalley,	293.59	
Gertrude H. Leonard,	274.46	1,025.19

EVENING SCHOOLS.

EVENING DRAWING:		
Arthur J. Cumming,	$137.50	
Albert B. Drake,	80.50	
George Stetson,	109.00	
George H. Nye,	63.00	390.00
CEDAR GROVE STREET:		
Allen F. Wood,	$144.00	
Ruby M. Tripp,	196.00	
Annie G. Brawley,	118.00	
Myra A. Leach,	40.00	
Grace Carver,	106.00	
Rachel Denham,	40.00	
Sarah Bowen,	103.50	
Grace Covel,	38.75	
Franklin C. Tripp,	38.75	
Nannie P. Slocum,	61.87	
Annie L. Brownell,	40.00	
Agnes J. Dunlap,	64.62	
Nellie Cook,	48.00	
Addie J. McFarlin,	64.62	
Ellis L. Howland,	37.50	
Mary R. Hinckley,	66.00	
Hattie S. Damon,	8.75	
Abby R. Johnson,	66.00	

Emily A. Delano,	2.50	
Clara S. Vincent,	60.50	
Emma A. McAfee,	1.25	
Mabel W. Cleveland,	60.50	
Lydia A. Macreading,	66.00	
Sarah E. Kirwin,	64.63	
Lucy D. Ashley,	66.00	$1,603.74
MERRIMAC STREET:		
Joseph P. Kennedy,	$224.00	
Katharine N. Lapham,	84.00	
Edward L. Wilde,	40.00	
Grace H. Potter,	66.00	
Regina M. Paul,	106.00	
Edith K. Weeden,	107.25	
Hattie S. Damon,	1.25	
Gertrude M. Robinson,	66.00	694.50
PARKER STREET:		
George H. Tripp,	$144.00	
Nathaniel W. Gifford,	192.00	
Sara L. Tallman,	122.00	
Lillie C. Tillinghast,	120.65	
Abby R. Johnson,	52.00	
Annie B. Parker,	108.62	
Ida A. McAfee,	110.00	
Mrs. M. F. Wilde,	118.00	
Lizzie E. Omey,	6.50	
Lucy D. Ashley,	40.00	
Kate Sweet,	56.00	
Anna I. Dexter,	40.00	
Gertrude M. Robinson,	33.75	
Rachel L. Denham,	66.00	
Myra A. Leach,	66.00	
Willetta B. Nickerson,	66.00	
Annie L. Edwards,	49.50	1,391.02
FIFTH STREET:		
Oliver W. Cobb,	$264.00	
Mrs. S. C. Whelden,	160.00	
Mrs. C. T. Johnson,	119.25	
Mary Crowell,	118.00	
Alice M. Holdsworth,	44.00	
Lena B. Hamblin,	106.00	
Harriet S. Gardner,	106.00	
Julia A. Fay,	40.00	
Sarah A. Winslow,	110.00	

Mary G. Bonney,	122.00	
Annie F. Smith,	106.00	
Alice A. Taylor,	106.00	
Annie L. Brownell,	64.62	
Nellie H. Cook,	66.00	
M. Eva Schwall,	64.62	
Mary E. Pasho,	66.00	
Sarah E. Stoddard,	64.62	
Mary E. Barstow,	64.62	
Elizabeth B. Brightman,	64.62	$1,856.35
CENTRAL:		
Mrs. S. W. Wilde,	$192.00	
Cora Cleveland,	122.00	314.00
SUBSTITUTES.		
Lucy D. Ashley,	$5.00	
Annie L. Brownell,	128.80	
Mary G. Bonney,	11.20	
Grace Covel,	21.40	
Grace Carver,	55.80	
Anna I. Dexter,	117.40	
Rachel L. Denham,	36.00	
Harriet S. Gardner,	24.90	
Mary J. Graham,	1.37	
Alice M. Holdsworth,	26.00	
Lena B. Hamblin,	27.20	
Abby R. Johnson,	16.00	
Catharine A. Johnson,	40.00	
Myra A. Leach,	63.00	
Mary E. Pasho,	26.00	
Gertrude M. Robinson,	20.60	
Annie F. Smith,	118.40	
Nannie P. Slocum,	50.00	
Alice A. Taylor,	6.60	
Alice P. Terry,	9.60	
Mabel A. Washburn,	92.00	
Edith K. Weeden,	18.40	915.67
		$81,663.66
To transfer to balance,		236.34
		$81,900.00

CR.

By appropriation,	$81,000.00	
Special appropriation,	900.00	$81,900.00

APPROPRIATIONS, GENERAL, 1889.

Dr.

Board of Health,	$1,600.00	
Cemeteries,	1,600.00	
Com. of Mass., Chap. 252,	3,000.00	
Fire Department,	35,000.00	
Free Public Library,	5,500.00	
Highways and Streets,	78,000.00	
Incidentals,	10,569.00	
Lighting the Streets,	28,500.00	
N. B. & Fairhaven Bridge,	1,000.00	
N. B. Water Works,	12,000.00	
Police Department,	58,000.00	
Poor Department,	30,000.00	
Public Debt,	121,911.00	
Public Schools, Incidentals,	25,000.00	
" " Pay of Teachers,	81,000.00	
" " Repairs of Buildings,	2,000.00	
Repairs of City Property,	3,500.00	
Salaries,	14,040.00	
Sewers, General Account,	1,000.00	
Sinking Funds,	23,880.00	
Truant School,	1,500.00	$538,600.00

Cr.

By Cash receipts, as per Treasurer's report,	$506,760.93	
1890, Jan. 6. By balance,	31,839.07	$538,600.00

Dr.

1890, Jan. 6. To balance,	$31,839.07

APPROPRIATIONS, GENERAL, 1888.

DR.

1889, Jan. 7. To balance,		$18,399.40

CR.

By Cash receipts as per Treasurer's report,	$7,018.90	
1890, Jan. 6. By balance,	11,380.50	$18,399.40

DR.

1890, Jan. 6. To balance,	$11,380.50

APPROPRIATIONS, GENERAL, 1887.

DR.

1889, Jan. 7. To balance,	$6,201.53

CR.

By Cash receipts, as per Treasurer's report,	$4,060.64	
1890, Jan. 6. By balance,	2,140.89	$6,201.53

DR.

1890, Jan. 6. To balance,	$2,140.89

APPROPRIATIONS, GENERAL, 1886.

DR.

1889, Jan. 7. To balance,	$203.39

CR.

By Cash receipts, as per Treasurer's report,	$203.39

APPROPRIATIONS, SPECIAL, 1889.

DR.

Cemeteries,	$1,000.00	
City Stable and Lot,	903.61	
Com. of Mass., Chap. 298 of 1889,	250.00	
Dartmouth St. School-House Ex.,	13,000.00	
Division St. School-House and Lot,	6,000.00	
Engine-House and Lot, Durfee St.,	13,200.00	
Engine-House No. 5, Alterations,	3,500.00	
Harrington School-House and Lot,	6,205.27	
N. B. & Fairhaven Bridge,	5,300.00	
Poor Department,	3,000.00	
Printing, Binding and Stationery,	1,000.00	
Public Schools, Incidentals,	6,900.00	
" " Pay of Teachers,	900.00	
" " Repairs of Buildings,	2,750.00	
School-House at Head of River,	6,790.00	
Truant School,	500.00	$71,198.88
Sewers, General Account,	$25,000.00	
" Acushnet Avenue, No. 5,	622.99	
" Cedar Grove Street,	1,126.39	
" Clinton Street,	653.93	
" County Street, No. 2,	2,606.62	
" County Street, No. 3,	600.00	
" Division Street, No. 2,	616.71	
" Elm Street,	8.75	
" Gifford Street,	1,110.71	
" Hall Street,	7.05	
" James Street,	2,500.00	
" Kempton Street, No. 2,	2,000.00	
" Liberty Street,	1,000.00	
" Maitland Street,	400.00	
" Mill Street, No. 2,	716.50	
" Oak Street,	7,500.00	
" Orchard Street,	263.00	
" Pearl and Willis Streets, Extension,	7,569.86	
" Rivet Street, No. 2,	3,951.93	
" Rivet Street, No. 3,	700.00	
" Shawmut Avenue,	657.16	
" South Front Street, No. 2,	1,200.00	
" South Water Street, No. 3,	116.09	
" Washington Street,	2,367.99	63,295.68
		$134,494.56

Cr.

By transfer from unappropriated funds,	$40,938.49	
1890, Jan. 6. By balance,	93,556.07	$134,494.56

Dr.

1890, Jan. 6. To balance,	$93,556.07

APPROPRIATIONS, SPECIAL, 1888.

Dr.

1889, Jan. 7. To balance,	$125,989.32

Cr.

By sale of bonds,	$105,000.00	
Transfer from sewers, general account,	1,582.48	
Transfer from unappropriated funds,	19,406.84	$125,989.32

BOARD OF HEALTH.

Dr.

Anthony, E. & Sons,	$2.25	
Bosworth, Darius,	12.66	
Bradley, W. E.,	29.50	
Douglass, F. M.,	135.25	
Gammons, E. H.,	9.00	
Hadley, F. R.,	1.50	
Hathaway, Nath.,	3.20	
Hillman, Jethro,	5.01	
Hornblower, Dr. W. H.,	5.00	
Inspector,	25.00	
Lawton, C. H. & H. A.,	3.00	
Macomber, W. E.,	3.50	
Mercury Pub. Co.,	7.50	
Peed, T. J.,	15.00	
Richards, G. D.,	5.30	
Richardson, L. H.,	500.00	
Small, Susie J.,	417.66	
So. Mass. Telephone Co.,	35.00	
Sullings, Kingman & Co.,	1.27	
Swift, Dr. W. N.,	61.00	$1,277.60
Transfer to balance,		322.40
		$1,600.00

Cr.

By appropriation,	$1,600.00

COMMONWEALTH OF MASSACHUSETTS.

Chapter 252.

Dr.

1889, Jan. 7. To balance.	$3,028.43	
To amount paid by city for State aid,	6,999.28	$10,027.71

Cr.

By appropriation,	$3,000.00	
By Cash receipts, as per Treasurer's report,	3,186.56	6,186.56
1890, Jan. 6. By balance,		3,841.15
		$10,027.71

Dr.

1890, Jan. 6. To balance,	$3,841.15

COMMONWEALTH OF MASSACHUSETTS.

Chapter 301.

Dr.

1889, Jan. 7. To balance,	$3,854.40	
To amount paid by city for State aid,	4,491.50	$8,345.90

Cr.

By Cash receipts, as per Treasurer's report,	$3,975.85	
1890, Jan. 6. By balance,	4,370.05	$8,345.90

Dr.

1890, Jan. 6. To balance,	$4,370.05

COMMONWEALTH OF MASSACHUSETTS.

Chapter 298 of 1889.

Dr.

To amount paid by city for State aid,	$476.00

Cr.

By appropriation,	$250.00	
1890, Jan. 6. By balance,	226.00	$476.00

Dr.

1890, Jan. 6. To balance,	$226.00

COURT JUDGMENTS.

Dr.

Joseph Francisca,	$667.51	
Smith, Lydia C.,	738.59	
Smith, Richard,	117.51	
Soule, R. A., et als.,	1,254.52	$2,778.13

Cr.

1890, Jan. 6. By balance,		$2,778.13

Dr.

1890, Jan. 6. To balance,		$2,778.13

CITY STABLE AND LOT.

Dr.

Brightman, C. O.,	$3,091.61	
Caswell, W. H.,	12.00	
Hammond, E. B.,	300.00	
Street Dept.,	2,847.53	$6,251.14

Cr.

1889, Jan. 7. By balance,	$2,500.00	
By special appropriations,	903.61	
Transfers to balance,	2,847.53	$6,251.14

REAL ESTATE TAX ACCOUNT.

Dr.

1889, Jan. 7. To balance,	$340.63	
To paid taxes and costs on real estate,	379.88	$720.51

Cr.

By paid up taxes, as per Treasurer's report,	$422.93	
1890, Jan. 6. By balance,	297.58	$720.51

Dr.

1890, Jan. 6. To balance,	$297.58

DIVISION STREET SCHOOL-HOUSE AND LOT.

Dr.

Church, W. N., land,	$6,000.00

Cr.

By appropriation, special,	$6,000.00

NEW BEDFORD SCHOOL COMMITTEE.

(JONATHAN BOURNE PRIZE FUND.)

Dr.

John Eldridge, Jr., Chairman, for prizes,	$60.00	
1890, Jan. 6. To balance,	30.00	$90.00

Cr.

1889, Jan. 7. By balance,	$30.00	
By Cash receipts, as per Treasurer's report,	60.00	$90.00

Cr.

1890, Jan. 6. By balance,	$30.00

ENGINE HOUSE AND LOT — Durfee Street

Dr.

Broad Guage Iron Works,	$6.00	
Durfee Street Sewer,	10.00	
Gifford, T. J. & Co.,	150.00	
N. B. Water Works,	6.38	
Robinson, C. T. & Co.,	359.24	
Rogers & Decrow,	400.00	
Street Dept.,	153.81	
Tripp, H. W.,	7,000.00	$8,085.43
1890, Jan. 6. To balance,		5,114.57
		$13,200.00

Cr.

By appropriation, special,	$13,200.00

Cr.

1890, Jan. 6. By balance,	$5,114.57

ENGINE HOUSE, No. 5 — Alterations.

Cr.

By appropriation, special,	$3,500.00

DARTMOUTH ST. SCHOOL-HOUSE EXTENSION.

Dr.

Blossom, A. F.,	$6,500.00	
Drake, A. B.,	12.00	
Hayden, W. G.,	415.50	
Lowe, S. C.,	249.85	$7,177.35
1890, Jan. 6. To balance,		5,822.65
		$13,000.00

Cr.

By appropriation, special,	$13,000.00

Cr.

1890, Jan. 7. By balance,	$5,822.65

HARRINGTON SCHOOL-HOUSE AND LOT.

Dr.

Drake, A. B.,	$21.50	
Duff, David & Son,	1,589.00	
Hammond, E. B.,	1,390.11	
Hunt, S. C.,	14,928.84	
Munroe, J. P. G.,	1,650.00	
N. B. Gas Light Co.,	325.00	
Smead & Northcott,	693.75	
Street Dept.,	17.43	
Sullings, Kingman & Co.,	482.39	$21,098.02
1890, Jan. 6. To balance,		225.00
		$21,323.02

Cr.

1889, Jan. 7. By balance,	$15,117.75	
By appropriations, special,	6,205.27	$21,323.02

Cr.

1890, Jan. 6. By balance,	$225.00

SCHOOL-HOUSE AT HEAD OF RIVER.

Dr.

Brownell & Murkland,	$3,000.00	
Tripp, S. A.,	62.20	$3,062.20
1890, Jan. 6. To balance,		3,727.80
		$6,790.00

Cr.

By appropriation, special,	$6,790.00

Cr.

1890, Jan. 6. By balance,	$3,727.80

CEMETERIES.

DR.

Pay Rolls,	$793.20
Anthony, E. & Sons,	8.34
Baker & Chase,	.60
Bertram, John & Co.,	10.00
Bliss, G. C.,	139.01
Borden, G. B.,	12.00
Brownell & Co.,	92.49
Carroll, John,	41.70
Coggeshall, Maxfield & Co.,	8.01
Cole, T. W.,	23.00
Cornell, C. F.,	1,161.65
Crapo, G. W.,	86.70
Davis, J. Herbert,	20.70
Davis, O. A.,	249.23
Davis Bros.,	26.40
Demoranville, J. B.,	15.75
Dews, Edwin,	.75
Dillon, Patrick,	41.70
Drake, A. B.,	113.60
Duff, David & Son,	557.62
Dunn, John,	498.33
Gifford's Brass Foundry,	36.39
Gray, C. A.,	1.83
Greene & Wood,	15.55
Hathaway, D. L.,	289.22
Hayes, N. P.,	4.55
Howard, W. M.,	5.62
Hoyle, W. J.,	4.20
Jenks, H. F.,	15.84
Jenney, P. P. & Son,	64.76
Joseph, John,	70.65
Joseph, John, Jr.,	9.00
King, George,	14.06
Lawton, R. S.,	352.78
Manchester, J. W.,	66.73
Mercury Pub. Co.,	8.34
Mott Iron Works,	79.25
Munroe, J. P. G.,	118.45
N. B. Water Works,	18.24
Odd Fellows' Building Association,	44.23
Peirce, William,	123.00
Perkins & Chase,	139.17
Perry, Ellis, Heirs of,	50.00

Pope, A. P.,	36.04	
Richards, G. D.,	8.35	
Sanders, William,	200.00	
Schraeder, W. H.,	6.00	
Sherman, C. R. & Son,	.75	
Sherman, W. D.,	.80	
Skiff, A. J.,	12.45	
So. Mass. Telephone Co.,	78.00	
Street Dept.,	4.90	
Sturtevant & Parker,	8.09	
Sullings, Kingman & Co.,	24.44	
Swan, W. D. & Son,	9.72	
Sylvia, A. A.,	6.12	
Wilber, S. B.,	17.15	
Winter, Joseph,	66.90	$5,912.35

Cr.

By appropriation,	$1,600.00	
Appropriation, special,	1,000.00	
Cash receipts, as per Treasurer's report,	2,670.00	
Transfers to balance,	642.35	$5,912.35

LIGHTING THE STREETS.

Dr.

Lights:		
Globe Gas Light Co., naptha,	$9,021.05	
N. B. Gas Light Co., gas,	9,999.89	
" " electric,	7,875.74	$26,896.68
Miscellaneous:		
Anthony, E. & Sons,	$4.37	
Globe Gas Light Co.,	78.75	
Kempton, F. A., est.,	25.00	
Kirby & Hicks,	4.00	
Mercury Pub. Co.,	4.92	
N. B. Gas Light Co.,	20.80	
Shaw, C. F., chairman,	22.00	159.84
		$27,056.52
Transfer to balance,		1,443.48
		$28,500.00

Cr.

By appropriation,	$28,500.00

N. B. & FAIRHAVEN BRIDGE.

Dr.

Pay Rolls,	$86.75	
Bowen, G. S. & Son,	2.80	
Chase, Abraham,	3,680.44	
City Treasurer,	81.55	
Driggs, J. D.,	2.25	
Duff, David & Son,	9.00	
Greene & Wood,	1,302.22	
Hillman, Jethro,	254.63	
Jenney, P. P. & Son.	2.80	
Nicholson, J. B.,	600.00	
Paisler, C. S.,	14.00	
Smith & Gurney,	20.45	
Street Dept.,	235.32	
Sturtevant & Parker,	2.30	
Tillinghast, W. A.,	77.30	
Tripp, S. A.,	1.70	$6,373.51

Cr.

By appropriation,	$1,000.00	
Appropriation, special,	5,300.00	
Transfer to balance,	73.51	$6,373.51

N. B. WATER WORKS.

Dr.

To expenditures, as per drafts of the N. B. Water Board,	$68,985.49	
1890, Jan. 6. To balance,	31,504.57	$100,490.06

Cr.

1889, Jan. 7. By balance,		$18,823.65
By appropriation,	$12,000.00	
By Cash receipts, as per Treasurer's report,	69,666.41	81,666.41
		$100,490.06

Cr.

1890, Jan. 6. By balance,	$31,504.57

NEW BEDFORD WATER WORKS.

(AS PUBLIC PROPERTY.)

DR.

1890, Jan. 6. To valuation of works,		$1,200,000.00

PUBLIC DEBT.

DR.

To principal (bonds) paid,	$45,000.00	
Interest on bonds,	73,140.86	
Interest on Trust Funds,	6,610.00	$124,750.86

CR.

By appropriation,	$121,911.00	
Cash receipts, as per Treasurer's report,	605.00	$122,516.00
1890, Jan. 6. By balance,		2,234.86
		$124,750.86

DR.

1890, Jan. 6. To balance,	$2,234.86

BONDS.

DR.

To bonds paid,	$45,000.00	
1890, Jan. 6. To balance,	1,268,000.00	$1,313,000.00

CR.

1889, Jan. 7. By balance,	$1,208,000.00	
By bonds issued,	105,000.00	$1,313,000.00

CR.

1890, Jan. 6. By balance,	$1,268,000.00

PUBLIC SCHOOLS — DOG FUND.

Dr.

Eggers, S.,	$14.24	
Hatch, W. E.,	99.39	$113.63
1890, Jan. 6. To balance,		2,026.78
		$2,140.41

Cr.

1889, Jan. 7. To balance,	$1,097.17	
By Cash receipts as per Treasurer's report,	1,043.24	$2,140.41

Cr.

1890, Jan. 6. By balance,	$2,026.78

SINKING FUNDS.

Dr.

To paid Sinking Fund Commissioners,	$23,880.00

Cr.

By appropriation,	$23,880.00

SEWERS — GENERAL ACCOUNT.

Dr.

Pay Rolls,	$6,235.60
Anthony, E. & Sons,	6.00
Ashley, C. M.,	2.36
Ashley, I. L.,	200.00
Borden, C. F.,	20.00
Braley, O. F.,	21.25
Brightman, C. O.,	5.58
Brownell & Murkland,	153.00
Brownson, L. B.,	2.28
Bryant & Brett,	.35
Caswell, N. H.,	.25
Coggeshall, C. W.,	7.50
Corson, T. S.,	258.07
Cronin, William,	40.00
Cushing, C. F.,	1.50
DeWolf & Vincent,	3.18
Dexter, T. D.,	22.80
Doran, William,	148.75
Drake, A. B.,	704.00
Duff, David & Son,	70.37
Eureka Fire Hose Co.,	90.00
Eureka Iron Foundry,	53.18
Fichtenmeyer & Flynn,	16.07
Fish, J. M.,	2.15
Gage, J. N.,	3.15
Gifford's Brass Foundry,	3.28
Gray, C. A.,	72.67
Greene & Wood,	54.43
Grinnell, Edmund,	1,176.31
Handy, Jonathan,	128.32
Hathaway, A. E.,	222.03
Hayden, W. G.,	23.34
Hayes, N. P.,	6.63
Hillman, Jethro,	243.09
Howland Mills,	13.00
Jenney, P. P. & Son,	41.54
Kane, Patrick,	2.00
Kirby & Hicks,	4.00
Lowe, S. C.,	11.85
Luscomb & Corey,	5.04
Lussein, Dr. C. F.,	12.50

Mahoney Bros.,	1.50	
McCullough, John,	58.00	
N. B. Cordage Co.,	79.15	
N. B. Water Works,	29.01	
Oak St. Sewer,	56.54	
Old Colony R. R. Co.,	1.13	
Paine, S. S. & Bro.,	774.65	
Paisler, C. S.,	8,488.85	
Pelan, Thomas,	.68	
Penney, E. F.,	4.80	
Perkins & Chase,	21.19	
Perry, S. F. & Son,	5.00	
Poole, R. D.,	33.34	
Refuse, R. T.,	2.25	
Richards, G. D.,	2.91	
Russell, Pardon, Jr.,	100.64	
Sawyer, S. P.,	5.00	
Sherman, W. D.,	7.26	
South Front St. Sewer,	56.50	
So. Mass. Telephone Co.,	42.00	
Spencer, George,	1.25	
Staples Bros.,	44.00	
Street Dept.,	7,447.89	
Sullings, Kingman & Co.,	159.61	
Sweeney, Daniel,	4.00	
Sylvia, A. A.,	40.06	
Taber, R. W.,	12.80	
Taylor, Dr. W. H.,	38.75	
Tillinghast, W. A.,	45.40	
Tripp, P. A.,	132.98	
Tripp, T. B.,	101.77	
Union Boot & Shoe Co.,	12.00	
White, Phineas,	.85	
W. & R. Wharf,	75.80	$27,974.98
To transfers to balance,		2,213.70
		$30,188.68

Cr.

By appropriation,	$1,000.00	
Appropriation, special,	25,000.00	
Cash receipts, as per Treasurer's report,	4,188.68	$30,188.68

SEWERS — ACUSHNET AVENUE No. 5.

DR.

Pay Rolls,	$447.77	
Drake, A. B.,	29.50	
General Sewers,	65.39	
Gray, C. A.,	33.36	
Street Dept.,	76.47	$652.49

CR.

By appropriations, special,	$622.99	
Transfer to balance,	29.50	$652.49

SEWERS — CEDAR GROVE STREET.

DR.

Pay Rolls,	$679.86	
Drake, A. B.,	34.00	
General Sewers,	323.16	
Gray, C. A.,	4.75	
Hathaway, A. E.,	38.85	
Paisler, C. S.,	32.82	
Street Dept.,	21.95	
Sullivan, M. H.,	2.50	$1,137.89

CR.

By appropriations, special,	$1,126.39	
Transfer to balance,	11.50	$1,137.89

SEWERS — CLINTON STREET.

DR.

Pay Rolls,	$371.07	
Drake, A. B.,	37.00	
General Sewers,	162.40	
Hathaway, A. E.,	30.50	
Paisler, C. S.,	21.80	
Skiff, S. B.,	2.46	
Street Dept.,	28.70	$653.93

CR.

By appropriations, special,	$653.93

SEWERS — COUNTY STREET No. 2.

Dr.

Pay Rolls,	$1,874.10	
Drake, A. B.,	54.00	
Duff, David & Son,	3.00	
General Sewers,	421.09	
Gray, C. A.,	72.37	
Paisler, C. S.,	24.15	
Street Dept.,	157.91	$2,606.62
To transfer to balance,		21.50
		$2,628.12

Cr.

By appropriations, special,	$2,606.62	
Cash receipts, as per Treasurer's report,	21.50	$2,628.12

SEWERS — COUNTY STREET No. 3.

Dr.

Pay Rolls,	$390.25	
Drake, A. B.,	26.00	
Street Dept.,	26.07	
West, W. R.,	.85	$443.17
To transfer to balance,		156.83
		$600.00

Cr.

By appropriations, special,	$600.00

SEWERS — DIVISION STREET No 2.

Dr.

Pay Rolls,	$371.02	
Drake, A. B.,	27.00	
General Sewers,	165.74	
Paisler, C. S.,	26.40	
Street Dept.,	14.23	
Sylvia, A. A.,	12.32	$616.71

Cr.

By appropriations, special,	$616.71

SEWERS — ELM STREET No. 2.

DR.

Street Dept.,	$8.75

CR.

By appropriations, special,	$8.75

SEWERS — GIFFORD STREET.

DR.

Pay Rolls,	$360.17	
Corson, T. S.,	32.00	
Drake, A. B.,	30.50	
General Sewers,	580.10	
Gray, C. A.,	6.51	
Hathaway, A. E.,	11.26	
Paisler, C. S.,	18.05	
Street Dept.,	102.62	$1,141.21

CR.

By appropriations, special,	$1,110.71	
Transfer to balance,	30.50	$1,141.21

SEWERS — HALL STREET.

DR.

Street Dept.,	$7.05

CR.

By appropriations, special,	$7.05

SEWERS — JAMES STREET.

Dr.

Pay Rolls,	$1,743.97	
Drake, A. B.,	59.00	
General Sewers,	224.87	
Greene & Wood,	43.51	
Jenney, P. P. & Son,	3.30	
Street Dept.,	92.74	$2,167.39
To transfer to balance,		332.61
		$2,500.00

Cr.

By appropriations, special,	$2,500.00

SEWERS — KEMPTON STREET No. 2.

Dr.

Pay Rolls,	$1,342.59	
Drake, A. B.,	57.50	
General Sewers,	145.92	
Gray, C. A.,	96.15	
Hart & Akin,	.35	
Jenney, P. P. & Son,	1.45	
Paisler, C. S.,	6.60	
Street Dept.,	103.61	$1,754.17
To transfer to balance,		245.83
		$2,000.00

Cr.

By appropriations, special,	$2,000.00

SEWERS — LIBERTY STREET.

Dr.

Pay Rolls,	$413.20	
Drake, A. B.,	42.50	
General Sewers,	282.67	
Paisler, C. S.,	13.27	
Street Dept.,	19.44	$771.08
To transfer to balance,		228.92
		$1,000.00

Cr.

By appropriations, special,	$1,000.00

SEWERS — MAITLAND STREET.

Dr.

Pay Rolls,	$188.56	
Drake, A. B.,	14.00	
General Sewers,	87.62	
Hathaway, A. E.,	4.16	
Lowe, S. C.,	1.00	
Paisler, C. S.,	12.00	
Street Dept.,	8.46	$315.80
To transfer to balance,		84.20
		$400.00

Cr.

By appropriations, special,	$400.00

SEWERS — MILL STREET No. 2.

Dr.

Pay Rolls,	$411.76	
Drake, A. B.,	22.00	
General Sewers,	173.20	
Jenney, P. P. & Son,	.68	
Street Dept.,	108.86	$716.50

Cr.

By appropriations, special,	$716.50

SEWERS — OAK STREET.

Dr.

Pay Rolls,	$4,970.47	
Borden, H. T.,	2.75	
Bryant & Brett,	.25	
Drake, A. B.,	22.50	
General Sewers,	31.00	
Gray, C. A.,	419.66	
Greene & Wood,	20.44	
Handy, Jonathan,	47.69	
Jenney, P. P. & Son,	12.85	
Karcher, Herman,	.50	
N. B. Cordage Co.,	7.48	
Paisler, C. S.,	1,331.93	
Scales, Mrs. R.,	1.00	
Street Dept.,	326.53	
Tripp, P. A.,	72.59	$7,267.64
To transfer to balance,		288.90
		$7,556.54

Cr.

By appropriations, special,	$7,500.00	
Cash receipts, as per Treasurer's report,	56.54	$7,556.54

SEWERS — ORCHARD STREET.

Dr.

Hayes, N. P.,	$.70	
N. B. Gas Light Co.,	5.00	
Paisler, C. S.,	124.75	
Street Dept.,	132.55	$263.00

Cr.

By appropriations, special.	$263.00

SEWERS — PEARL AND WILLIS STS. EX.

Dr.

Pay Rolls,	$227.23	
Chase, T. J.,	58.30	
Cleary, Michael,	5.50	
Duff, David & Son,	773.50	
General Sewers,	93.67	
Macomber, Alex.,	7.36	
Old Colony R. R. Co.,	4,505.78	
Spooner, E. S.,	42.69	
Street Dept.,	1,407.43	
Wordell, A. H.,	32.36	$7,152.82
1890, Jan. 6. To balance,		417.04
		$7,569.86

Cr.

By appropriations, special,	$7,569.86

Cr.

1890, Jan. 6. By balance,	$417.04

SEWERS — RIVET STREET No. 2.

Dr.

Pay Rolls,	$2,598.63	
Borden, H. T.,	4.38	
Drake, A. B.,	75.75	
Duff, David & Son,	21.50	
Eggers, S.,	36.70	
General Sewers,	752.15	
Gray, C. A.,	11.24	
Hathaway, A. E.,	117.42	
Paisler, C. S.,	74.50	
Potter, E. L.,	2.04	
Street Dept.,	219.44	
Sylvia, A. A.,	40.22	$3,953.97

Cr.

By appropriation, special,	$3,951.93	
Transfer to balance,	2.04	$3,953.97

SEWERS — RIVET STREET No. 3.

Dr.

Pay Rolls,	$250.32	
Corson, T. S.,	1.50	
Drake, A. B.,	47.00	
General Sewers,	149.37	
Gray, C. A.,	11.00	
Hathaway, A. E.,	5.34	
Paisler, C. S.,	9.00	
Street Dept.,	24.48	$498.01
To transfer to balance,		201.99
		$700.00

Cr.

By appropriations, special,	$700.00

SEWERS — SHAWMUT AVENUE.

Dr.

Pay Rolls,	$397.52	
Drake, A. B.,	35.50	
General Sewers,	183.46	
Street Dept.,	40.68	$657.16

Cr.

By appropriations, special,	$657.16

SEWERS — SOUTH FRONT STREET No. 2.

Dr.

Pay Rolls,	$860.85	
Drake, A. B.,	35.50	
Gatie, Henry,	1.92	
General Sewers,	90.17	
Gray, C. A.,	98.65	
Harrison, E. L.,	3.00	
Street Dept.,	69.56	$1,159.65
To transfer to balance,		96.85
		$1,256.50

Cr.

By appropriations, special,	$1,200.00	
Cash receipts, as per Treasurer's report,	56.50	$1,256.50

SEWERS — SOUTH WATER STREET No. 2.

Dr.

Drake, A. B.,	$16.50	
General Sewers,	65.95	
Street Dept.,	33.64	$116.09

Cr.

By appropriations, special,	$116.09

SEWERS — WASHINGTON STREET.

Dr.

Pay Rolls,	$1,837.32	
Drake, A. B.,	47.00	
Eggers, S.,	9.50	
General Sewers,	190.75	
Gray, C. A.,	105.19	
Hathaway, A. E.,	3.25	
Moriarty Bros.,	1.55	
Paisler, C. S.,	28.50	
Penney, E. F.,	10.73	
Street Dept.,	53.37	
Sylvia, A. A.,	127.83	$2,414.99

Cr.

By appropriations, special,	$2,367.99	
Transfer to balance,	47.00	$2,414.99

FIRE DEPARTMENT.

Dr.

Pay Rolls:

Board of Engineers,	$1,720.16	
Permanent Men,	13,371.33	
Engine Companies,	9,774.62	$24,866.11

Repairs of Engines, Harnesses, etc.:

Acushnet Iron Co.,	$9.32	
Allen, Jesse,	3.87	
Berry, C. E.,	49.00	
Bowker & Tripp,	4.00	
Brownell, Ashley & Co.,	213.36	
Brownell, G. L.,	45.00	
Caswell, A. R.,	2.00	
Caswell, N. H.,	24.90	
Cronin, William,	96.75	
Cushing, C. F.,	10.00	
Dexter, T. D.,	.62	
Durfee, E. M.,	213.62	
Eastern Electric Cable Co.,	192.26	
Edison Electric Ill. Co.,	321.68	
Electric Coal and Wood Co.,	7.00	
Fichtenmeyer & Flynn,	48.63	
Forbes & Co., J. R.,	135.60	
Footman, J. W.,	49.31	
Gardner & Southwick,	4.19	
Gifford & Co., T. J.,	.44	
Hathaway, A. E.,	3.75	
Hathaway, L. J.,	11.75	
Healy, T. F.,	39.45	
Jackson, A. S.,	33.00	
Macy, E. B.,	182.81	
Manchester Locomotive Works,	40.25	
N. B. Boiler & Machine Co.,	20.06	
N. B. Copper Co.,	3.03	
Roach, Edward R.,	28.00	
West, W. R.,	.75	
Williams, J. S.,	15.50	
Willis, W. H.,	5.92	1,815.82
Amount carried forward,		$26,681.93

Amount brought forward,		$26,681.93
REPAIRS OF ENGINE HOUSES:		
Borden, C. F.,	$15.27	
Brightman Bros.,	46.40	
Coggeshall, Maxfield & Co.,	.65	
Croacher, T. W.,	8.75	
Dexter, T. D.,	2.05	
Faunce, C. L.,	27.31	
Gifford's Brass Foundry,	10.50	
Greene, M. S.,	2.80	
Greene & Wood,	226.92	
Hammond, F. W.,	47.75	
Hart & Akin,	5.52	
Mahoney Bros.,	2.29	
Mason, J. L. G.,	119.73	
Moriarty Bros.,	18.44	
Nelson, George,	14.76	
Paine Bros., S. S.,	.50	
Paisler, C. S.,	.40	
Sherman, C. R. & Son,	.25	
Snow & Gilbert,	161.84	
Sullings & Kingman,	62.77	
Sullivan, M. H.,	10.75	
Tripp, S. A.,	21.76	807.41
HAY, GRAIN AND FUEL:		
Allen, F. M.,	$54.50	
Ashley, G. B.,	45.27	
Baylies, William,	270.62	
Brayton, G. H.,	8.00	
Brightman, Abner,	30.65	
Brownell, J. T.,	59.64	
Corson, T. S.,	91.07	
Davis, James,	158.68	
Denison Bros.,	252.08	
Douglass, M. S.,	103.08	
Drown, C. H.,	57.25	
Duff, David & Son,	65.88	
Electric Coal and Wood Co.,	7.00	
Hart & Akin,	328.26	
Jenney, W. A.,	29.71	
Kirk, John,	197.79	
Amount carried forward,		$27,489.34

Amount brought forward,		$27,489.34
Lawton, W. J.,	32.32	
Macomber Bros.,	92.35	
Marston & Co., F. A.,	156.87	
Notter, John,	2.50	
Potter, D. H.,	94.29	
Poor Department,	785.85	
Smith, C. W.,	20.60	
Smith, F. H.,	48.10	
Tinkham, W.,	98.60	
Viera, John A.,	50.50	3,141.46
SUPPLIES:		
Ames Supply Co.,	$1.63	
Boyd, Alexander,	64.00	
Briggs & Lawrence,	74.00	
Callahan, C. & Co.,	911.50	
Cobb, G. A.,	11.08	
Cummings, C. S. & B.,	17.47	
Daniels, Dr. A. C.,	42.00	
Delano, George, Sons,	4.50	
Dews, Edwin,	1.25	
Donaghy, Thomas,	18.10	
Driscol, Church & Hall,	32.04	
DeWolf & Vincent,	3.25	
Eastern Electric Cable Co.,	192.26	
Hadley, F. R.,	19.86	
Hart & Akin,	.20	
Hayes, N. P.,	2.00	
Hinman, J.,	10.00	
Homer, G. S.,	5.00	
Hose Co. No. 1,	5.00	
Kirby, C. L.,	4.88	
Mitchell, A. W.,	6.75	
Morse, A. J. & Son,	24.00	
N. B. Cordage Co.,	5.51	
N. B. Gas Light Co.,	39.45	
Nye, Wm. F.,	17.10	
Pease, F. R.,	17.70	
Peat Moss Pet. Hoof Packing Co.,	3.00	
Pierce & Sowle,	26.38	
Potter, W. F. & Co.,	9.00	
Richards, Geo. D.,	16.79	
Amount carried forward,		$30,630.80

Amount brought forward,		$30,630.80
Robinson, W. A. & Co.,	8.08	
Rogers & DeCrow,	170.69	
Russell, A. L.,	9.82	
Russell, Pardon, Jr.,	23.50	
Sherman, C. R., & Son,	7.15	
Sullings & Kingman,	24.80	
Swan & Son, W. D.,	2.46	
Swift & Co., W. H.,	55.20	
Taber, R. H.,	42.75	
Thomas, George,	28.90	
Tripp, S. A.,	3.23	
Vose, S. C.,	3.00	
Wamsutta Mills,	10.92	
Washburn & Moen Mfg. Co.,	75.08	
Western Electric Co.,	147.36	
Whiting & Co., E. B.,	21.40	
Williams, John S.,	21.25	
Wing, C. F.,	28.32	
Wood, Brightman & Co.,	2.72	2,272.33
MISCELLANEOUS:		
Anthony, E., & Sons,	$30.00	
Briggs, D. D.,	115.41	
Brownell, Heirs of Jos.,	85.00	
Brownell, H. M.,	1.00	
Caswell, N. H.,	10.25	
Cornell, Pardon,	500.00	
Dews, Edwin,	10.00	
Douglass, J. O.,	475.00	
Duddy, James,	.75	
Dunlap, Albert A.,	80.00	
Dwelley, Andrew,	2.50	
Edison Electric Ill. Co.,	321.68	
Footman, J. W.,	9.65	
Gamewell Fire Alarm Tel. Co.,	1,119.00	
Gray, Charles A.,	8.33	
Grinnell, Edmund,	2.86	
Hart, T. M. & Co.,	11.00	
Hayes, S. W.,	10.00	
Hutchinson, H. S. & Co.,	2.00	
Johnson & Howland,	23.50	
Kane, D. J., & Bro.,	3.50	
Amount carried forward,		$32,903.13

Amount brought forward,		$32,903.13
Kenyon, H. W.,	10.50	
Kirby & Hicks,	6.00	
Macy, Frederick,	607.37	
Maine, H. M.,	1.16	
Mercury Pub. Co.,	10.50	
N. B. Gas Light Co.,	238.66	
N. B. Ice Co.,	103.31	
N. B. Water Works,	117.50	
O. C. R. R. Co.,	103.62	
Perry, S. F., & Son,	.50	
Reynolds, E. G.,	16.50	
Sargent, F. H.,	18.10	
Sherman, C. R., & Son,	.75	
Sherman, W. W.,	4.00	
So. Mass. Telephone Co.,	350.00	
U. S. Express Co.,	.50	4,410.40
		$37,313.53

Cr.

By appropriation,	$35,000.00	
Cash receipts, as per Treasurer's report,	1,076.57	$36,076.57
Transfer to balance,		1,236.96
		$37,313.53

HIGHWAYS AND STREETS.

Dr.

Pay Rolls,		$53,609.97
Flagging and Stones:		
Ashley, H. T.,	$102.91	
Bertram, Douglas,	26.82	
Bertram, John,	60.63	
Brawley, A. G.,	23.84	
Brownell, C. T.,	123.90	
Borden, Geo. B.,	232.69	
Booker, T. J.,	116.06	
Burke, James,	21.38	
Burke, Charles,	8.54	
Burns, James,	.61	
Burns, J. H.,	127.22	
Butts, C. H. W.,	5.51	
Casey, E. H.,	50.98	
Collins, J. M.,	1.87	
Connell, William,	2.70	
Cory, F. A.,	15.81	
Cory, G. F.,	14.02	
Cory, G. G.,	55.36	
Cook, P. B.,	4.14	
Crapo, G. G.,	396.81	
Crapo, G. W.,	5.63	
Cunningham, D. P.,	5.11	
Curtis, M. E.,	153.78	
Davenport, Dudley,	53.53	
Douglass, J. O.,	62.20	
Duddy, James,	3.70	
Duff, David, & Son,	331.65	
Dunn, John,	1.43	
Ferguson, David,	51.34	
Gammons, E. H.,	43.00	
Gammons, F. N.,	137.83	
Gifford, C. T. W.,	143.28	
Goulet, Julian,	12.48	
Gregory, Napoleon,	74.86	
Grew, David, Jr.,	86.12	
Hathaway, H. W.,	160.00	
Hathaway, P. E.,	194.62	
Amount carried forward,		$53,609.97

Amount brought forward,		$53,609.97
Hathaway, P. S.,	129.90	
Hawes, S. T.,	26.14	
Howes, F.,	33.45	
Howland, Ezra,	3.71	
Jenks,	22.05	
Kenney, Thomas,	65.65	
King, B. W.,	108.49	
King, J. T.,	149.73	
King, Levi,	79.19	
King, R. B.,	140.80	
Linden, Arthur,	24.49	
Manchester, J. W.,	158.77	
Maxfield, A. S.,	3.96	
McCrahan, Timothy,	5.03	
Nye, Willard, Jr.,	29.80	
Offley, G. W.,	9.09	
Paine, S. S. & Bro.,	826.15	
Paisler, C. S.,	7,786.93	
Pierce, J. Henry,	24.42	
Poole, J. B.,	4.31	
Poole, P. S.,	75.65	
Poole, R. D.,	524.70	
Potter, G. A.,	46.03	
Potter, Mrs. S. C.,	79.26	
Quirk, Patrick,	3.48	
Reed, Eli W.,	16.30	
Ricketson, B., Jr.,	41.18	
Ritter, W. O.,	6.14	
Rogers, A.,	145.13	
Rogers, E. D.,	17.10	
Rogers, G. W.,	15.32	
Rogers, J. H.,	71.81	
Rogers, John F.,	1.92	
Ryder Farm,	2.93	
Sawin, A. K. P.,	5.00	
Sheehan, Timothy,	59.00	
Simmons, E. E.,	185.38	
Sisson, A. B.,	82.14	
Sisson, O. A.,	90.63	
Smith, John,	4.28	
Spencer, F. J.,	102.74	
Spooner, C. T.,	116.98	
Amount carried forward,		$53,609.97

Amount brought forward,		$53,609.97
Spooner, J. W.,	287.53	
St. Hilaire, Bruno,	52.58	
Stowell, B. I.,	222.68	
Sullivan, J. B.,	43.97	
Sutton, W. J.,	192.67	
Sweeny, Daniel,	741.09	
Taber, G. B.,	9.68	
Tripp, William,	1.62	
Upham, W. O. T.,	.72	
Wainer, Lucy J.,	53.48	
West, S. N.,	3.01	
Wilbur, J. F.,	21.51	
Wilbur, Mrs. L. P.,	3.75	
Winslow, Charles,	103.20	
Woodhouse, William,	29.72	16,004.63
REPAIRS OF WAGONS AND HARNESS:		
Cronin, William,	$209.80	
Cushing, C. F.,	489.50	
Dexter, T. D.,	39.20	
Durfee, E. M.,	16.63	
Fichtenmeyer & Flynn,	701.08	
Forbes, J. B.,	208.35	
Gage, J. N.,	52.75	
Hathaway, A. E.,	254.35	
Hathaway, L. J.,	187.88	
King, W. F.,	6.56	
Lowell, Clarence,	175.55	
Luce, F. C.,	206.10	
Springer, A. R.,	6.98	
Sisson, O. A.,	35.00	
Tripp, A. B.,	46.75	2,636.48
SHARPENING AND REPAIRING TOOLS:		
Collet, U. E.,	$7.98	
Footman, J. W.,	25.82	
Hathaway, A. E.,	240.98	
Jenney, P. P. & Son,	205.17	
Luce, F. C.,	3.60	
Sherman, W. D.,	3.15	
Skiff, S. B.,	42.84	
Sylvia, A. A.,	8.76	
Terry, F. C.,	107.33	645.63
Amount carried forward,		$72,896.71

Amount brought forward,		$72,896.71
HAY, GRAIN, AND FUEL:		
Alden, Seth,	$87.50	
Barnard, G. M.,	27.65	
Baylies, William,	609.86	
Blossom, Edward,	14.03	
Crapo's Steam Mill,	15.50	
Crapo, W. H.,	14.65	
Cook, Cornelia A.,	44.10	
Corson, T. S.,	240.04	
Denison Bros.,	1,542.65	
Duff, David & Son,	745.93	
Gidley, E. B.,	51.80	
Howland, Elihu,	23.50	
Jenney, W. A.,	516.52	
Keen, W.,	15.30	
Lawrence, J. H.,	86.20	
Mackenzie & Co.,	518.55	
N. B. Gas Light Co.,	30.71	
Poor Department,	175.60	
Sawyer, S. P.,	7.50	
Sherman, Barzillia,	12.00	
Skiff, A. J.,	8.92	
Spencer, Geo.,	6.00	
Spencer's Wood Yard,	4.00	
Wing, Samuel,	26.10	
	25.64	4,850.25
GRAVEL AND SAND:		
Ashley, Mary,	$22.36	
Bertram, Douglass,	18.40	
Brownell, H. M.,	103.30	
Brownell & Murkland,	111.50	
Cobb, G. A.,	370.00	
Coggeshall, J. F.,	111.48	
Coggeshall, W. P.,	232.53	
Duff, David & Son,	1,715 62	
Dunn, John,	415.87	
Grouse, Antone,	54.44	
Hathaway, Judith,	9.18	
Hersom, Thomas,	6.06	
Hoard, Seth,	10.44	
Lowell, Clarence,	11.25	
Amount carried forward,		$77,746.96

Amount brought forward,		$77,746.96
Mitchell & Bartley,	231.25	
Norwood, John,	13.50	
Offley, G. W.,	43.84	
Offley, G. W., Jr.,	5.36	
Parker, Lucy M.,	462.60	
Perkins & Chase,	1,548.90	
Poole, A. T.,	55.68	
Russell, John,	7.19	
Sawyer, John,	2.88	
Spooner, W. C.,	15.68	
Sweeny, Daniel.	46.40	
Tobey, William,	5.40	
White, Augustus,	4.02	
Wilber, Mrs. L. P.,	72.36	
Westgate, A. N.,	1.00	
Wilber, Harvey,	4.25	5,712.74
HORSE SHOEING:		
Caswell, N. H.,	$13.65	
Collet, U. E.,	6.16	
Durfee, E. M.,	94.05	
Fuller, N. T.,	127.30	
Footman, J. W.,	.75	
Hathaway, A. E.,	10.15	
King, W. F.,	30.74	
Luce, J. L.,	30.21	
Refuse, R. T.,	64.99	
Roach, Edward,	32.85	
Springer, A. R.,	10.58	
Taber, C. G.,	3.50	424.93
REPAIRS OF ROLLER AND CRUSHER:		
Acushnet Iron Co.,	$2.86	
Amer. Road Machine Co.,	6.00	
Babbitt, Wood & Co.,	108.89	
Bowker & Tripp,	214.32	
Brownell & Co.,	10.73	
Farrell Foundry Machine Co.,	297.18	
Gifford Brass Foundry,	1.53	
Jenney, P. P.,	82.60	
Jenney & Buffington,	165.29	
Munroe, J. P. G.,	43.67	
Amount carried forward,		$83,884.63

Amount brought forward,		$83,884.63
N. B. Boiler & Machine Co.,	2.00	
Oastler, W. C.,	265.00	
Soule, F. H.,	25.60	
Weaver, S. V.,	16.00	1,141.67
SUPPLIES AND MATERIALS:		
Amer. Dressing Co., soap,	$5.00	
Ashley, J. B., suet,	13.94	
Brownell, E. C., suet,	1.29	
Brownell & Co.,	68.94	
Buffalo Forge Co., forge,	25.00	
Cobb, G. A.,	29.08	
Daniels, Dr. A. C., horse medicine,	29.00	
Davis, L. D., powder,	5.00	
Derby & Kilmer Desk Co., desk and chairs,	167.00	
Delano, Geo. Sons,	42.12	
DeWolf & Vincent, tools,	185.08	
Donaghy, Thomas, belts,	2.30	
Driscol, Church & Hall, soaps and oil,	52.45	
Dews, Edwin, books, etc.,	304.80	
Dodge, Haley & Co.,	55.56	
Dunlap, A. A.,	38.00	
Eggers, S.,	5.00	
Gray, C. A., dynamite, powder, fuse,	354.58	
Greene & Wood, lumber,	29.86	
Hadley, F. R.,	4.93	
Hall, A. D.,	4.50	
Handy, Jonathan,	117.66	
Hart, T. M. & Co.,	11.26	
Hayes, N. P.,	27.81	
Jenkins, B. S.,	30.81	
Lowe, J. H., tallow,	2.28	
Lowe, S. C., hardware,	39.65	
Lucas, A. E.,	34.08	
Maguire, James,	38.35	
McCullough, John, canvas,	7.00	
Morse, C. M., Jr., shovels,	2.50	
Morse T. D. & Machine Co., chuck, etc.,	15.16	
N. B. Cordage Co., rope,	19.88	
N. B. Water Works,	9.88	
Peat Moss Pet. Hoof Packing Co.,	1.50	
Pierce & Sowle, belting,	70.73	
Amount carried forward,		$85,026.30

Amount brought forward,		$85,026.30
Pomeroy, H. G., drills, &c.,	8.00	
Potomska Mills, waste,	18.90	
Richards, George D., hardware,	48.20	
Russell, Luther, salt,	6.00	
Sawyer, S. P., buckets,	3.25	
Scollay & Rich, soap and polish,	25.55	
Searles, Mortimer,	10.50	
Sherman, C. R., & Son, stationery, time books,	22.65	
Smith & Wordell,	12.70	
Soule, F. A.,	4.00	
Sullings, Kingman & Co., wire, tools, lock, etc.,	358.84	
Tillinghast, W. A., lumber,	57.65	
U. St. Railway Co., tickets,	30.00	
Vose, S. C., lotion,	4.50	
Waite, Williams & Co.,	13.51	
Wakefield Rattan Co., reeds,	36.00	
Washburn, W. H., lumber,	64.14	
Weeks & Potter, sponges,	34.92	
Wilson, W. P.,	10.85	
Wing, C. F., mats,	1.25	
Wood, Brightman & Co., smoke pipe,	8.16	2,631.55
MISCELLANEOUS:		
Anthony, E., & Sons,	$76.87	
Ashley, Dr. D. C., horse, medicines,	329.06	
Aspinwall, L., whisperphone,	2.00	
Ashley, I. L., horses, etc.,	360.50	
Bailey, G. P., liniment, &c.,	4.05	
Baylies, Clifford, repairing clock,	1.50	
Bancroft, J. V., sprinkling, etc.,	96.00	
Bertram, John, concreting,	1,660.72	
Briggs & Lawrence, chair spring,	1.00	
Brightman, C. O.,	2.85	
Brownell, H. M., carriage hire,	16.00	
Cobb, G. A., shovels,	4.10	
Coggeshall, C. W., repairing block,	11.82	
Coggeshall, Maxfield & Co., plumbing,	100.92	
Cornell, C. R., keeping horse,	15.25	
County St. Sewer No. 2,	21.50	
Dartmouth, Town of, damages,	2,920.00	
Davis & Tripp, dressing hogs,	6.25	
Drake, A. B., surveying,	255.13	
Amount carried forward,		$87,657.85

Amount brought forward,		$87,657.85
Edison Elec. Ill. Co., shade, moving wires,	5.00	
Ennis, Geo.,	4.70	
Ennis, J. H., setting glass,	.50	
Fairbanks, Brown & Co.,	1.00	
Faunce, C. L., carpentry,	168.00	
Gifford's Brass Foundry,	2.99	
Gifford, T. J., & Co., plumbing,	1.36	
Greenough & Co., directory,	2.00	
Hawes, W. M., lathe, engine and boiler,	877.92	
Hayden, Eugene, wagon,	1.50	
Hicks, W. H., care of lights,	4.33	
Hillman, Jethro,	247.33	
Hornblower, Dr. W. H., veterinary surgeon,	24.00	
Hutchinson, H. S., & Co.,	1.31	
Jenney, P. P. & Son, labor, etc.,	111.28	
Kirby & Hicks,	7.05	
Leary, John, care of lights,	12.12	
Lowe, S. C., hardware, plumbing, etc.,	95.77	
Luce, T. R., ex. in New York,	17.65	
McCabe, John, care of lights,	46.62	
Mercury Pub. Co., advertising,	75.70	
Moriarty Bros., painting,	1.97	
Naramore & Co., horses,	600.00	
N. B. Gas Light Co.,	352.05	
Norton, Thomas, care of lights,	24.60	
O. C. R. R.,	70.79	
O. C. Steamboat Co.,	4.80	
Parker, D. L., ex. to Boston,	9.00	
Parker, Dr. E. M., prof. services,	16.00	
Parker's Wharf, wharfage,	27.90	
Perry, S. F., & Son, carriage,	12.00	
Perkins & Chase,	15.57	
Police Dept., special police,	52.35	
Reinhan, Thomas, care of lights,	6.00	
Richardson, J. C., horses,	365.00	
Richmond, S. P., food,	2.00	
Rose, J. T., removing defunct quadruped,	1.00	
Russell, Pardon, Jr.,	46.00	
Sawyer, S. P., hardware, repairs, etc.,	92.44	
Sherman, C. R., & Son, fitting locks,	1.10	
Sherman, W. H., carriage hire,	3.00	
Sisson, O. A., care of lights,	19.26	
Amount carried forward,		$87,657.85

Amount brought forward,		$87,657.85
So. Mass. Tel. Co.,	105.50	
Taber, G. B., use of gear,	2.75	
Taber, R. W.,	1.00	
Taylor, H. J., & Son, cuspadors, duster,	4.00	
Tower, John,	12.36	
Treshem,	4.02	
U. St. Railway Co., labor on tracks,	316.40	
Welch & Hall,	5.50	
West, Wm. R., painting, etc.,	20.40	
White, Phineas,	10.81	
Williams, A.,	5.00	9,804.22
Labor and Teams:		
Brownell & Murkland,	$7.00	
Corson, T. S.,	31.79	
Perkins & Chase,	20.87	59.66
		$97,521.73
		8.99
		$97,530.72

Cr.

By appropriation,	$78,000.00	
Transfer from Unappropriated Funds,	2,500.00	$80,500.00
Cash receipts, as per Treasurer's report,		17,030.72
		$97,530.72

REPAIRS OF CITY PROPERTY.

Dr.

ALMS-HOUSE:		
Faunce, C. L.,	$36.09	
Faunce, L. H.,	72.96	
Greene & Wood,	14.18	
Perkins & Chase,	7.25	
Tripp, S. A.,	13.75	$144.23
CITY HALL BUILDING:		
Almy & Hitch,	$3.78	
Caswell, W. H.,	42.34	
Hatch, G. E.,	2.25	
Hillman, Jethro,	40.04	
Howland, H. B.,	4.25	
Penney, E. F.,	24.80	
Piper, A. D.,	2.00	
Sullings, Kingman & Co.,	1.79	
Taber, R. A.,	13.21	
Wady, A. B.,	5.25	
Wood, Brightman & Co.,	46.59	186.30
CITY HALL SQUARE:		
Brown, W. S.,	$19.02	
Central Union Association,	3.67	
Jenney, P. P., & Son,	21.71	
Maxfield, Russell,	345.00	
Sullings, Kingman & Co.,	19.20	408.60
CITY STABLES:		
Briggs & Lawrence,	$31.90	
Faunce, C. L.,	94.60	
Greene & Wood,	81.38	207.88
COMMON:		
Almy & Hitch,	$11.04	
Baylies, William,	10.00	
Gray, C. A.,	20.20	
Jenney, P. P., & Son,	96.32	
Sullings, Kingman & Co.,	4.81	
Taber, C. C.,	547.50	
White, Phineas,	1.50	691.37
Amount carried forward,		$1,638.38

Amount brought forward,		$1,638.38
ENGINE HOUSES:		
C. Callahan Co.,	$36.00	
Faunce, C. L.,	99.59	
Gifford, T. J., & Co.,	13.80	
Hammond, F. W.,	12.85	
Holmes, D. W.,	155.64	
Macy, E. B.,	5.70	
Mason & Tripp,	50.35	
Munroe, J. P. G.,	42.00	
Tillinghast, W. A.,	56.00	471.93
LIBRARY BUILDING:		
Almy & Hitch,	$20.25	
Briggs & Lawrence,	12.75	
Brown, W. S.,	14.25	
Coggeshall, Maxfield & Co.,	1.00	
Cranston, O. W.,	3.25	
DeWolf, James,	34.13	
Edison Electric Ill. Co.,	35.39	
Faunce, C. L.,	13.83	
Faunce, L. H.,	8.56	
Gifford, T. J., & Co.,	1.40	
Hayes, N. P.,	15.00	
Hillman, Jethro,	39.37	
Jenney, P. P., & Son,	7.85	
Jenney & Buffington,	37.26	
N. B. Boiler & Machine Co.,	84.62	
N. B. Gas Light Co.,	2.75	
Peirce, C. E.,	48.43	
Perkins & Chase,	21.95	
Piper, A. D.,	2.00	
Pope, A. P.,	3.50	
Richards, G. D.,	3.15	
Sherman, C. R., & Son,	1.45	
Slocum, F. R.,	14.00	
Sullings, Kingman & Co.,	11.94	
Taber, R. A.,	20.50	
Wady, A. B.,	3.75	
Washburn, W. H.,	1.78	
Wing, C. F.,	19.85	
Wood, Brightman & Co.,	24.66	508.62
Amount carried forward,		$2,618.93

Amount brought forward,		$2,618.93
POLICE STATIONS:		
Briggs & Lawrence,	$33.00	
Caswell, W. H.,	104.00	
Faunce, C. L.,	3.15	
Gifford, T. J., & Co.,	114.47	
Holmes, D. W.,	8.57	
Wing, C. F.,	38.08	301.27
WARD ROOMS:		
Brightman, C. O.,	$11.17	
Faunce, C. L.,	6.08	
Hillman, Jethro,	2.60	
Peirce, C. E.,	.60	
Penney, E. F.,	3.12	
Sherman, C. R., & Son,	1.25	
Sullings, Kingman & Co.,	2.50	
Wady, A. B.,	2.05	29.37
MISCELLANEOUS:		
Arnett, Robert, Jr.,	$11.53	
Bosworth, William,	99.99	
Brownell, Ashley & Co.,	1.05	
Brownell & Murkland,	16.65	
Coggeshall, Maxfield & Co.,	4.10	
Corson, T. S.,	2.00	
Drake, A. B.,	16.00	
Faunce, C. L.,	70.99	
Kingman, G. D., Sec'y,	5.75	
Paisler, C. S.,	1.50	
Wady, A. B.,	120.46	
White, Phineas,	40.87	
Wood, Brightman & Co.,	17.17	408.06
		$3,357.63
To transfer,		142.37
		$3,500.00
Jan. 7, 1890. To balance,		300.00
		$3,800.00

CR.

By appropriation,	$3,500.00	
Transfer from Unappropriated Funds,	300.00	$3,800.00

CR.

Jan. 7, 1890. By balance,	$300.00

POOR DEPARTMENT.

Dr.

Officers' Salaries:

Bucklyn, Ella F., clerk,	$452.00	
Dammon, Samuel, supt. wood yard,	331.80	
Fessenden, C. B. H., secretary,	387.82	
Flanders, Rev. G. T., chaplain,	138.00	
Homer, George S.,	50.00	
Howland, Jonathan, Jr.,	50.00	
Kingman, Dr. J. H., physician,	31.00	
Macy, P. S., supt. Alms-house,	850.00	
Peterson, Dr. C. A. B., physician,	1,602.00	
Smalley, Orrick, secretary,	745.08	$4,637.70

Groceries:

Acushnet Cooperative Association,	$268.50	
Allen & Coxen,	9.00	
Alley, A. G., Jr.,	250.00	
Almy, A. A.,	4.00	
Baker, Daniel,	2.00	
Barlow, J., & Co.,	100.00	
Barstow, N., & Co.,	15.00	
Bates, J. W., & Co.,	118.00	
Bates, L. B.,	34.00	
Bradford, W. L.,	99.50	
Braley, J. W.,	244.00	
Bromley, David,	100.00	
Brownell, C. H., & Sons,	306.00	
Brownell, S. A.,	42.00	
Bühr, Josephine,	29.00	
Burgess, Thomas, & Son,	60.00	
Canny, J. F.,	45.00	
Carl, Anna,	16.00	
Central Union Association,	586.76	
Chappell, W. H.,	32.00	
Chase, Z. W.,	56.00	
Chaussé, Joseph,	117.00	
Chaussé & La France,	253.00	
Childs, C. M.,	4.00	
Clark, Robert,	108.00	
Cooper, William,	26.00	
Cummings, C. S. & B.,	222.50	
Amount carried forward,		$4,637.70

Amount brought forward,		$4,637.70
Dammon, F. A.,	21.00	
Darling Bros.,	73.00	
Davenport, Dudley,	192.00	
Davenport, G. E.,	89.50	
Davis, C. S.,	154.00	
Davis, James,	78.00	
Donaghy, Thomas,	5.75	
Driscol, Church & Hall,	4.00	
Dugan, M.,	244.00	
Dyer, J. E.,	162.00	
Folger, D. B.,	551.00	
Francis, A. J.,	36.00	
Francis, J. B.,	170.00	
Francis, Manuel,	6.00	
Frasier, E. M.,	305.00	
Galligan, J. T.,	34.00	
Gatie, Henry,	44.00	
Gendron, Edward,	113.50	
Gray Bros.,	207.00	
Greenwood, John,	95.00	
Hammond, H. S.,	370.00	
Harrington, D. H.,	6.00	
Hindle, William,	141.00	
Holcomb, Henry,	18.00	
Holcomb, Monroe,	387.50	
Howland, A., & Co.,	16.00	
Howland, C. H.,	157.00	
Howland, Ebenezer,	40.00	
Hunter, George,	192.00	
Hutchinson, John,	14.00	
Industrial Cooperative Association,	87.00	
Jenney Bros.,	27.00	
Kennedy, William,	2.00	
Knowles, W. H.,	10.00	
Koster, Jacob,	21.00	
La France, L. M.,	61.50	
Lapham & Slocum,	24.00	
Leavitt, Clark,	127.00	
Lenhardt, Ignatz,	12.00	
Lowe, James, & Co.,	107.00	
Lowe, J. H.,	77.00	
Luther, H. R.,	37.00	
Amount carried forward,		$4,637.70

Amount brought forward,		$4,637.70
Macomber, G. W.,	48.00	
McCloskey & Riley,	142.50	
Moncrieff, David,	47.00	
Moncrieff, W. T.,	35.00	
Morse, F., & Co.,	87.00	
Moulton, F. F.,	98.00	
Murphy, Thomas,	133.75	
Notter, John,	6.00	
Nye, A.,	130.00	
Ouimet, Damassé,	16.00	
Paige, J. H.,	4.00	
Palmer, W. L.,	8.00	
Patnaude, J. C.,	65.00	
Pelan, Thomas,	177.00	
Pementel, Frank,	4.00	
Perry, A. E.,	42.00	
Perry, Charles,	6.50	
Perry, W. A.,	71.00	
Potter, W. F., & Co.,	38.18	
Raymond, R. F.,	126.00	
Read, B. H.,	14.20	
Rock, James,	51.00	
Rogers, M. D.,	5.00	
Rose, David,	11.00	
Russell, Allen, Jr.,	30.00	
Simmons, E. E.,	50.00	
Sisson, J. S.,	4.00	
Slocum, W. C.,	12.00	
Smith, E. B.,	33.00	
Smith Bros.,	1.50	
Snow & Wood,	6.00	
Spooner, E. F.,	2.00	
Stanton, A. G.,	16.50	
Sullivan Bros.,	160.00	
Taber, O. R., & Son,	119.50	
Taylor, J. C.,	170.00	
Tilton, J. M.,	2.00	
Tonge, William,	53.50	
Tuell, J. B. C.,	18.00	
Washburn, A. R.,	187.00	
Weeks, H. T.,	36.50	
Whittaker & Blaine,	8.00	
Wood, Elihu, Jr.,	36.00	9,977.64
Amount carried forward,		$14,615.34

Amount brought forward,		$14,615.34
BOOTS, SHOES, AND CLOTHING:		
Brownell, G. K.,	$1.50	
Davis, J., & Co.,	2.00	
Haskell, C. M.,	2.00	
Haskell & Tripp,	1.00	
Knowles & Co.,	3.00	
Union Boot & Shoe Co.,	15.32	24.82
FUEL:		
Corson, T. S.,	$1,148.07	
Dews, Edwin,	2.50	
Douglass, M. S.,	578.48	
Grinnell, Edmund,	7.01	
Hart & Akin,	698.76	
Sawyer, J. A.,	.93	
Street Department,	444.30	
Sullings, Kingman & Co.,	2.00	
Swan, W. D., & Son,	2.40	
Wood, Brightman & Co.,	1.15	2,885.60
BURIALS:		
Jean, J. B.,	$208.00	
Murphy, T. J.,	171.00	
Vaughan, W. C., Jr.,	126.00	
Williams, J. S.,	185.00	
Wilson, E. T.,	260.00	950.00
MISCELLANEOUS:		
Anthony, E., & Sons,	$6.00	
Blake, J. E.,	8.00	
Brownell, H. M.,	3.45	
Burbank, Mary E.,	4.20	
Chase, A. A.,	4.91	
City Treasurer,	1,703.89	
Damon, Mrs. Phebe N.,	79.50	
Dews, Edwin,	5.50	
Douglass, F. M.,	.50	
Harris, E. T.,	39.00	
Kane, D. J., & Bro.,	6.50	
Leonard, Dr. M. H.,	2.00	
Macomber, Harriet,	12.00	
Amount carried forward,		$18,475.76

Amount brought forward,		$18,475.76
Mercury Pub. Co.,	75.02	
Old Colony R. R. Co.,	157.96	
Ruggles, D. W.,	24.00	
Sherman, C. R., & Son,	3.00	
Snow, Loum, & Son,	153.00	
So. Mass. Telephone Co.,	56.22	
Sowle, N. P.,	86.00	
St. Luke's Hospital,	20.00	
Taber, R. W.,	9.35	
Tinkham, J. S.,	.75	
Ward, Dr. D. P.,	1.00	
Williams, Rev. E.,	3.00	
Wing, C. F.,	3.90	2,468.65

Paid State and Hospitals for Board of Persons Out of the City:

Commonwealth of Massachusetts,	$157.10	
Taunton Lunatic Hospital,	7,585.86	
Westborough Insane Asylum,	311.99	
Worcester Insane Asylum,	241.42	
Worcester Lunatic Hospital,	169.46	8,465.83

Paid Cities and Towns for Supplies and Board of Persons Out of the City:

Acushnet,	$4.66	
Barnstable,	54.00	
Boston,	164.28	
Brockton,	31.10	
Chelsea,	33.25	
Dartmouth,	60.00	
Fairhaven,	256.21	
Fall River,	228.00	
Falmouth,	74.25	
Ipswich,	67.00	
Malden,	8.25	
Mattapoisett,	91.80	
Nantucket,	74.00	
Peabody,	9 27	
Taunton,	66.09	
Wrentham,	24.00	1,246.16
Amount carried forward,		$30,656.40

Amount brought forward,		$30,656.40

ALMS-HOUSE.

Clothing, Hats, Caps, &c.:

Davis, J., & Co.,	$64.65	
Devoll, Pardon, & Son,	44.05	
Doane Bros.,	35.00	
Donaghy, Thomas,	31.79	
Faisneau, G. E.,	94.74	
Knowles & Co.,	43.97	
Lucas, A. E.,	19.95	
Moore & Diman,	94.37	
Moynan & Co.,	4.89	
Nichols & Damon,	12.50	
Sanders & Barrows,	11.87	
Taber, Read & Gardner,	7.50	
Tillson, H. H.,	.50	
Wing, J. & W. R., & Co.,	10.13	475.91

Furnishings and Supplies:

Acushnet Iron Co.,	$19.43	
Ashley, I. L.,	200.00	
Bennett, S. R.,	5.30	
Blake, J. E.,	32.97	
Bliss & Nye,	23.00	
Borden, C. M.,	154.95	
Bowen, G. S., & Son,	12.20	
Briggs & Lawrence,	10.75	
Brightman, A.,	15.00	
Brownell & Co.,	4.50	
Chase, E. B., & Co.,	2.50	
Clark, Mrs. M. V.,	10.20	
Corson, T. S.,	238.42	
Delano, George's Sons,	4.00	
DeWolf & Vincent,	18.71	
Douglass, F. M.,	26.34	
Ellis, C. E.,	49.58	
Fire Department,	279.05	
Globe Gas Light Co.,	10.90	
Greene & Wood,	50.32	
Hadley, F. R.,	58.20	
Handy, Jonathan,	8.39	
Amount carried forward,		$31,132.31

Amount brought forward,		$31,132.31
Hart, T. M., & Co.,	3.69	
Hart & Akin,	478.26	
Hawes, Simeon,	13.02	
Hayes, N. P.,	15.24	
Homer, G. S.,	4.80	
Humane Restraint Co.,	8.00	
Lawton, C. H. & H. A.,	57.69	
Leonard, Samuel, & Son,	19.20	
Lewis, Job,	1.50	
Maxfield & Peirce,	1.83	
McCullough, John,	21.56	
Paine, S. S., & Bro.,	14.17	
Peirce, F. E.,	10.43	
Pope & Wood,	36.05	
Richards, G. D.,	14.19	
Richmond, S. P., & Co.,	9.71	
Robertson, J. W.,	6.50	
Slocum, F. R.,	20.02	
Sullings, Kingman & Co.,	49.28	
Taber, R. W.,	1.10	
Taylor, H. J., & Son,	9.37	2,030.32
PROVISIONS AND GRAIN:		
Baylies, William,	$450.28	
Brownell, E. C.,	1,058.68	
Cornell, Pardon, & Co.,	44.00	
Cummings, C. S. & B.,	207.14	
Davis & Hatch,	132.65	
Denison Bros.,	433.82	
Driscol, Church & Hall,	1,001.35	
Gifford, F. S.,	119.04	
Macomber Bros.,	360.64	
Macy & Flynn,	59.88	
Potter, W. F., & Co.,	349.56	
Russell, S. H.,	71.42	
Sherman, I. C., & Son,	10.65	
Smith & Wordell,	235.12	
Snell, D. A.,	1.70	
Wing, Samuel,	16.00	4,551.93
Amount carried forward,		$37,714.56

Amount brought forward,		$37,714.56
MISCELLANEOUS:		
Alms-house help,	$2,918.89	
Allen, Jesse,	4.13	
Anthony, E., & Sons,	12.27	
Brownell, H. M.,	15.00	
Brownell, Ashley & Co.,	208.77	
Coggeshall, Maxfield & Co.,	2.25	
Cronin, William,	24.25	
Cushing, C. F.,	31.25	
Dean, L.,	25.00	
Delano, Gustavus,	75.07	
Dews, Edwin,	4.80	
Forbes, J. R., & Co.,	7.70	
Grinnell, Edmund,	4.40	
Jenney, P. P., & Son,	8.53	
Kelley, W. L.,	6.75	
Kirby & Hicks,	15.00	
Mara, Dr. J. C.,	6.75	
Mercury Pub. Co.,	6.00	
N. B. Boiler & Machine Co.,	51.50	
N. B. Machine Shop,	10.02	
Sherman, C. R., & Son,	.10	
Sherman, W. D.,	5.31	
So. Mass. Telephone Co.,	43.25	
Street Department,	204.74	
Swan, W. D., & Son,	2.36	
Tripp, S. A.,	42.11	
White, Phineas,	16.70	
Wilson, D. W.,	162.59	
Wood, Brightman & Co.,	11.39	3,926.88
		$41,641.44
To transfers to balance,		2,223.20
		$43,864.64

CR.

By appropriation,	$30,000.00	
By appropriation, special,	3,000.00	
By cash receipts, as per Treasurer's report,	10,864.64	$43,864.64

PUBLIC SCHOOLS — REPAIRS OF BUILDINGS.

Dr.

ACUSHNET AVENUE:		
Chace, Ezra B.,	$7.29	
Jenney & Buffington,	22.83	
Maxfield, William, & Son,	40.37	$70.49
ARNOLD STREET:		
Chace, Ezra B.,	$2.60	
Snow & Gilbert,	.50	3.10
CANNONVILLE:		
Bliss, G. H.,	$27.46	
Davis Bros.,	1.00	
Underwood, J. A.,	8.28	36.74
CEDAR STREET:		
Coggeshall, Maxfield & Co.,	$11.75	
Gifford, T. J., & Co.,	18.73	
Hatch, G. E.,	11.50	
Lewis, B. F.,	12.62	
N. B. Boiler & Machine Co.,	8.05	
Tripp, H. W.,	13.62	76.27
CEDAR GROVE STREET:		
Haskins, O., & Sons,	$203.00	
Lloyd Bros.,	6.85	
Mahoney Bros.,	6.25	
West, W. R.,	5.95	
Wood, Brightman & Co.,	3.31	225.36
CLARK'S POINT:		
Caswell, W. H.,		1.35
DARTMOUTH STREET:		
Almy, G. L.,	$8.60	
Chace, Ezra B.,	14.00	
DeWolf, James,	.50	
Greene & Wood,	1.51	24.61
Amount carried forward,		$437.92

Amount brought forward,		$437.92
FIFTH STREET:		
Chace, Ezra B.,	$188.21	
Greene & Wood,	3.95	
Hart & Akin,	121.42	
Hayden, W. G.,	8.70	
Russell, D. J.,	59.53	
Mason, J. L. G.,	4.55	386.36
FOURTH STREET:		
Jenney & Buffington,	$1.51	
Sherman, J. H.,	51.86	
Snow & Gilbert,	.96	54.33
GROVE:		
Chace, Ezra B.,	$9.14	
Lumbert, John,	16.30	
Maxfield, William, & Son,	3.74	29.18
HARRINGTON:		
Bliss, G. H.,		416.42
HIGH:		
Bliss, G. H.,	$130.50	
Gifford's Brass Foundry,	3.00	
Hatch, G. E.,	10.15	
Heisel, C. H.,	23.03	
N. B. Boiler & Machine Co.,	15.70	
Peirce, William,	8.00	
Perkins & Chase,	18.35	
Russell, D. J.,	28.22	
Sturtevant & Parker,	.90	
West, W. R.,	33.65	
Wilson, D. W.,	31.60	303.10
HIGH STREET:		
Jenney, P. P., & Son,	$1.01	
Kirby, W. A.,	8.04	9.05
KEMPTON STREET:		
Brown, W. S.,	$7.50	
Look, J. W.,	5.83	
Sturtevant & Parker,	.35	13.68
Amount carried forward,		$1,650.04

Amount brought forward,		$1,650.04
LINDEN STREET:		
Caswell, W. H.,	$47.12	
Corish, John,	.40	
Jenney & Buffington,	31.74	
Mason, J. L. G.,	3.40	
Street Department,	3.60	86.26
MAXFIELD STREET:		
Gifford, T. J., & Co.,	$11.55	
Hatch, G. E.,	24.11	
Lewis, B. F.,	19.23	
Mason, J. L. G.,	3.85	
Mason & Tripp,	2.58	
Smead Heating & Ventilating Co.,	1,250.00	
Street Department,	9.75	
Tripp, H. W.,	192.32	1,513.39
MERRIMAC STREET:		
Briggs, G. E.,	$4.05	
Caswell, W. H.,	11.32	
Corish, John,	1.43	
Mason, J. L. G.,	37.83	
Perkins & Chase,	10.50	65.13
MIDDLE STREET:		
Gifford, T. J., & Co.,	$ .44	
Holmes, D. W.,	4.72	
Lewis, B. F.,	255.96	
Peirce, A. B.,	5.85	
Pope, A. P.,	53.07	
Sherman, J. H.,	43.75	
Wood, Brightman & Co.,	18.62	382.41
NORTH:		
West, W. R.,		.30
PARKER STREET:		
Durfee, E. M.,	$2.78	
Faunce, C. L.,	22.67	
Hatch, G. E.,	31.97	
Lewis, B. F.,	36.42	
N. B. Boiler & Machine Co.,	2.98	
Street Department,	.90	
Tripp, H. W.,	178.18	275.90
Amount carried forward,		$3,973.43

Amount brought forward,		$3,973.43
PLAINVILLE:		
Poole, P. S.,	$5.90	
Tillinghast, W. A.,	3.99	9.89
ROCKDALE:		
Bliss, G. H.,	$86.70	
Underwood, J. A.,	5.75	92.45
SHERMAN STREET WARD ROOM:		
Chace, Ezra B.,	$86.75	
Penney, E. F.,	68.86	
Tripp, H. W.,	52.91	208.52
THOMPSON STREET:		
Jenney & Buffington,	$3.28	
Lewis, B. F.,	42.08	
Lloyd Bros.,	45.00	
N. B. Boiler & Machine Co.,	8.49	
Penney, E. F.,	2.20	
Perkins & Chase,	36.00	
Tripp, H. W.,	42.04	
Wilson, D. W.,	24.69	203.78
WILLIAM STREET:		
Caswell, W. H.,	$9.33	
Coggeshall, Maxfield & Co.,	26.47	
Hathaway, A. B.,	4.45	
Taber, R. A.,	3.45	43.70
MISCELLANEOUS (Office):		
Mason, J. L. G.,	$63.76	
N. B. Boiler & Machine Co.,	30.67	94.43
		$4,626.20
To transfers to balance,		123.80
		$4,750.00

CR.

By appropriation,	$2,000.00	
" " special,	2,750.00	$4,750.00

PUBLIC SCHOOLS—INCIDENTALS.

Dr.

SALARIES:		
Almy, Emma, clerk,	$600.00	
Hatch, W. E., supt. and sec'y,	2,750.00	
Phillips, H. T., truant officer,	115.40	
Smith, Henry, truant officer,	338.46	
Thornton, Rebecca, clerk,	60.00	
Tompkins, I. B., truant officer,	11.54	$3,875.40
PAY ROLLS:		
Janitors, sweepers, &c.,		9,624.24
FUEL:		
Ashley, Mrs. Mary,	$33.25	
Beetle Boat Building Co.,	2.10	
Corson, T. S.,	226.99	
Crapo's Steam Mill,	15.00	
Duff, David & Son,	33.15	
Hart & Akin,	3,043.84	
Holmes, A. W.,	23.50	
Notter, John,	9.00	
Phillips, Lawson,	139.60	
Smith, John,	5.50	3,531.93
REPAIRS OF SCHOOL-HOUSES:		
Ashley, Mrs. Mary,	$14.00	
Bliss, G. H.,	479.26	
Borden, C. F.,	19.25	
Briggs, G. E.,	29.66	
Caswell, W. H.,	3.09	
Chace, Ezra B.,	69.37	
Coggeshall, Maxfield & Co.,	177.12	
Gifford's Brass Foundry,	12.09	
Gifford, T. J., & Co.,	6.31	
Greene & Wood,	2.95	
Hammond, F. W.,	96.38	
Haskins, Orville, & Sons,	228.99	
Jenney & Buffington,	.70	
Kern & Wright,	10.28	
Lewis, B. F.,	27.71	
Mason, J. L. G.,	64.53	
Amount carried forward,		$17,031.57

Amount brought forward,		$17,031.57
Mason & Tripp,	18.24	
Maxfield, William, & Son,	17.01	
Pierce, A. B.,	25.50	
Pope, A. P.,	156.44	
Snow & Gilbert,	30.74	
Taber, R. A.,	25.14	
Tillinghast, W. A.,	17.03	
Tripp, H. W.,	16.34	
Welling, Eli,	30.00	
West, W. R.,	92.82	
Wood, Brightman & Co.,	1.75	1,672.70
BOOKS, STATIONERY, &C.:		
Ambrose, F. M.,	$200.00	
American Bank Note Co.,	75.00	
American Supply Co.,	1.75	
Anthony, E., & Sons,	133.67	
Appleton, D., & Co.,	3.80	
Barnes, A. S., & Co.,	167.10	
Boston School Supply Co.,	225.00	
Cyclostyle Co.,	3.80	
Dews, Edwin,	1.70	
Educational Supply Co.,	.23	
Freeman, G. H.,	2.50	
Frost, George, & Co.,	36.00	
Frost & Adams,	11.20	
Ginn & Co.,	55.02	
Harper & Bros.,	444.23	
Hatch, W. E.,	4.00	
Heath, D. C., & Co.,	302.18	
Holden Book Cover Co.,	340.37	
Hume, Harrison,	30.25	
Hutchinson, H. S., & Co.,	54.23	
Interstate Pub. Co.,	.45	
Kane, D. J., & Bro.,	78.12	
Lawton, J. M., Jr.,	45.34	
Mercury Pub. Co.,	16.50	
Perry, G. S.,	1,844.91	
Prang Educational Co.,	34.24	
Richter, G. H , & Co.,	19.50	
Schoenhof, Carl,	5.40	
Silver, Burdett & Co.,	13.34	
Thompson, Brown & Co.,	126.80	
Ware, William, & Co.,	634.62	4,911.25
Amount carried forward,		$23,615.52

Amount brought forward,		$23,615.52
Repairs of Heating Apparatus:		
Hatch, G. E.,	$46.33	
Mahoney Bros.,	7.70	
N. B. Boiler & Machine Co.,	25.03	
Penney, E. F.,	8.96	
Tripp, S. A.,	732.78	
Wood, Brightman & Co.,	25.62	846.42
Supplies:		
Acushnet Coop. Ass'n,	$6.18	
Almy, G. L.,	15.61	
Almy, J. T.,	4.35	
Bennett, R. G.,	5.25	
Bennett, Samuel,	221.24	
Bennett, S. R.,	52.31	
Blake, J. E.,	5.40	
Bliss & Nye,	100.85	
Bonney, C. T., Jr.,	6.42	
Briggs & Lawrence.	320.92	
Brightman & Washburn,	27.00	
Brownell & Co.,	9.00	
Central Union Ass'n,	7.31	
Church, C. H.,	.50	
Cummings, C. S. & B.,	2.88	
Cushing, C. F.,	4.00	
DeWolf & Vincent,	13.08	
Eimer & Amend,	136.97	
Ellis, L. B.,	2.25	
Gammons, E. H.,	83.15	
Gifford, F. S.,	7.41	
Haskell & Tripp,	14.68	
Hayden, W. G.,	1.58	
Hayes, N. P.,	1.00	
Hazzard, J. B.,	151.80	
India Alkali Works,	5.04	
Keuffel & Esser Co.,	22.70	
Lincoln, E. C.,	6.16	
Luce, J. L.,	1.00	
N. B. Cordage Co.,	1.14	
Phillips, H. T.,	40.00	
Pierce & Sowle,	68.36	
Purrington & Brown,	22.03	
Amount carried forward,		$24,461.94

Amount brought forward,		$24,461.94
Richards, G. D.,	16.87	
Searles, Mortimer,	1.53	
Sherman, C. R., & Son,	70.93	
Slocum, F. R.,	10.25	
Spare, S. F.,	3.36	
Sullings, Kingman & Co.,	52.26	
Swan, W. D., & Son,	.45	
Taber, R. W.,	1.00	
Taylor, H. J., & Son,	2.75	
Washburn, W. H.,	11.44	
Whitcomb, A. G.,	1,554.98	
White, A. P.,	1.00	
White, Phineas,	3.00	
Whiting, E. B., & Co.,	16.36	
Wing, C. F.,	591.21	
Wood, Brightman & Co.,	.25	3,705.21
Miscellaneous:		
Almy & Hitch,	$70.63	
Allen, Edwin,	.50	
Anthony, E., & Sons,	3.50	
Azvedo, Manuel,	38.20	
Barbour, J. R.,	7.30	
Barnum, S. G.,	14.70	
Butts, C. H. W.,	14.00	
Carson, C. J. R.,	30.82	
Cole, T. W.,	5.40	
Corish, John,	2.75	
Corson, T. S.,	.75	
Dammon, G. K.,	13.55	
Dennis, Valariah,	541.63	
Duddy, James,	2.00	
Duff, David, & Son,	246.22	
Edison Electric Ill. Co.,	522.15	
Eggers, S.,	11.00	
Freetown, Town of,	25.00	
Gammons, E. H.,	69.00	
Gardner, T. M.,	63.07	
Gomley, J. A.,	8.50	
Gray, C. A.,	52.35	
Grinnell, Edmund,	30.38	
Hatch, W. E.,	85.69	
Amount carried forward,		$28,167.15

Amount brought forward,		$28,167.15
Hatch & Co.,	16.40	
Hathaway, G. B.,	16.00	
Hathaway, J. C.,	2.00	
Hayden, W. G.,	.90	
Hayes, L. G.,	2.10	
Hinckley, M. R.,	3.69	
Howland, H. B.,	9.00	
Hurll, C. W.,	6.00	
Jenney, P. P., & Son,	35.65	
Kelley, J. S., & Son,	3.00	
Kelley, W. L.,	89.50	
Lumbert, John,	3.70	
Maine, H. M.,	11.14	
Marts, A. M., Agent,	80.00	
Mercury Pub. Co.,	11.87	
Moulton, A. G.,	127.75	
Murray, J. W.,	5.00	
N. B. Gas Light Co.,	491.83	
N. E. Dispatch Co.,	.80	
Old Colony R. R. Co.,	29.89	
Other, Samuel,	16.50	
Paine, N. L.,	11.00	
Peirce, E. M.,	4.50	
Peirce, William,	3.10	
Perry, S. F., & Son,	15.00	
Phillips, H. T.,	82.25	
Poole, P. S.,	6.00	
Potter, Frances,	5.05	
Potter, G. A.,	15.20	
Russell, D. J.,	58.71	
Sherman, W. H.,	11.00	
Smith, A. C.,	94.35	
So. Mass. Telephone Co.,	103.40	
Springer, A. R.,	.50	
Street Dept.,	.45	
Sturtevant & Parker,	.75	
Sullivan, D. J.,	5.00	
Thornton, Rebecca,	1.00	
Tillinghast & Alden,	45.00	
Tripp, L. G.,	7.54	
U. S. Express Co.,	.60	
Wady, A. B.,	154.96	
Amount carried forward,		$28,167.15

Amount brought forward,		$28,167.15
Wood, Edmund,	5.00	
Wood, James A.,	13.27	
W. U. Telegraph Co.,	.31	3,465.75
		$31,632.90
To transfer to balance,		281.69
		$31,914.59

CR.

By appropriation,	$25,000.00	
" " Special,	6,900.00	
" Cash receipts as per Treasurer's report,	14.59	$31,914.59

POLICE DEPARTMENT.

DR.

SALARIES:		
John Corey, chief,	$320.83	
Daniel A. Butler, chief,	1,179.17	
Luther M. Dayton, captain,	1,100.00	
James L. Wilber, captain,	1,100.00	
Daniel A. Butler, lieutenant,	213.86	
Ellery Peirce, lieutenant,	1,000.00	
Frederick Hussey, lieutenant,	1,000.00	
Seth E. Bryant, lieutenant,	1,000.00	
Thomas J. Taft, lieutenant,	1,000.00	
Timothy C. Allen, lieutenant,	1,000.00	
Lemuel D. Adams, lieutenant,	755.56	
Henry N. West, clerk,	471.66	$10,141.08
PAY ROLLS:		
Pay of regular officers, housekeepers, &c.,	$45,967.15	
Pay of special police,	3,782.30	49,749.45
Amount carried forward,		$59,890.53

Amount brought forward,		$59,890.53
CARRIAGE AND HORSE HIRE:		
Ashley, I. L.,	$157.10	
Bradley, W. E.,	65.60	
Brown, J. Q. A.,	63.25	
Brownell, H. M.,	.50	
Brownell, J. F.,	105.75	
Cook, Robert,	14.00	
Cornell, C. R.,	80.45	
Cornell & Swift,	53.45	
Dwelley, Andrew,	4.50	
Hayden, Eugene,	107.65	
Jay, J. A.,	32.45	
Parris, J. S.,	2.50	
Peirce, E. M.,	50.25	
Reynolds, E. G.,	52.30	
Richards, W. D.,	140.40	
Sherman, W. H.,	96.50	1,026.65
SUPPLIES:		
Bliss & Nye,	$43.03	
Briggs & Lawrence,	2.00	
Corson, T. S.,	227.73	
Crapo, G. M.,	2.50	
Crapo's Steam Mill,	13.00	
DeWolf & Vincent,	10.63	
Dews, Edwin,	53.14	
Doane, R. N. B.,	7.00	
Driscol, Church & Hall,	33.35	
Evans, D., & Co.,	27.50	
Fisher, H. H.,	16.89	
Folger, D. B.,	18.40	
French, S. A.,	2.70	
Gardner, Emma K.,	94.25	
Greenough, W. A., & Co.,	12.00	
Hadley, F. R.,	1.75	
Hart & Akin,	177.05	
Heller, C. J.,	16.00	
Humane Restraint Co.,	11.50	
Hutchinson, H. S., & Co.,	22.99	
Kane, D. J., & Bro.,	5.85	
Kelley, W. L.,	44.45	
Lawton, C. H. & H. A.,	3.75	
Amount carried forward,		$60,917.18

Amount brought forward,		$60,917.18
Lerned, C. W., & Co.,	20.00	
Moore & Diman,	8.97	
N. B Ice Co.,	88.80	
Richmond, S. P., & Co.,	21.95	
Ripley, C. W.,	193.31	
Sanders & Barrows,	2.25	
Sherman, C. R., & Son,	4.05	
Sowle, F. A.,	3.60	
Swift, M. C., & Son,	1.50	
Thomas, George,	12.70	
Tower & Lyon,	4.50	
Watson & Fuller,	18.05	
Whittemore, M. F.,	4.40	
Young, Mrs. Emma,	54.95	1,286.49
MISCELLANEOUS:		
Adams, L. D.,	$13 65	
Almy & Hitch,	3.13	
Anthony, E., & Sons,	22.98	
Arnett, J. W.,	1.00	
Barney, E. L.,	25.00	
Butler, D. A., expenses,	252.42	
Butler, D. A., keeper of lock-up,	100.00	
Cannavan, Patrick,	7.35	
Case, E. T.,	751.17	
Caswell, W. H.,	11.70	
Clifford, Walter,	50.00	
Cobb, T. J.,	5.00	
Coggeshall, Maxfield & Co.,	2.34	
Corey, John,	46.97	
Dayton, L. M.,	32.25	
Delano, J. R.,	2.00	
Edison Electric Ill. Co.,	62.60	
Faber, Annie E.,	10.00	
Faunce, C. L.,	.70	
Gendron, G. E.,	2.15	
Gifford, O. E.,	4.95	
Gifford, T. J., & Co.,	40.69	
Grinnell, Edmund,	2.04	
Hathaway, F. L.,	26.50	
Howland, Dr. B. C.,	7.00	
Johnson, W. V.,	6.60	
Amount carried forward,		$62,203.67

Amount brought forward,		$62,203.67
Jones, A. H.,	1.76	
Kempton, F. A.'s Estate,	25.00	
Leonard, Dr. M. H.,	5.00	
Macy, E. B.,	6.00	
Maine, H. M.,	.56	
Mason, J. L. G.,	9.23	
Mercury Pub. Co.,	83.97	
Milliken, F. A.,	20.00	
N. B. Boiler & Machine Co.,	15.33	
N. B. Gas Light Co.,	514.26	
Parker, J. C.,	37.55	
Perry, Dr. E. B.,	3.00	
Pierce, Dr. A. M.,	10.00	
Pope, A. P.,	18.35	
Prescott, Dr. C. D.,	35.00	
Sisson, J. De L.,	9.66	
Sisson, J. De L., Jr.,	1.50	
So. Mass. Telephone Co.,	301.50	
Sowle, W. P.,	1.50	
Sweet, Dr. Job,	23.00	
Taft, T. J.,	19.37	
Tripp, S. A.,	14.48	
Underwood, J. A.,	1.55	
Viall & Cook,	183.36	
Wilber, J. L.,	9.10	
Wixon, J. A.,	5.65	
Wood, Anna G.,	20.00	
Wood, R. B.,	26.32	
Wood, Brightman & Co.,	2.50	2,894.69
		$65,098.36

Cr.

By appropriation,	$58,000.00	
" Cash receipts as per Treasurer's report,	6,085.63	
" Transfers to balance,	1,012.73	$65,098.36

INCIDENTALS.

Dr.

Advertising, Printing, &c.:		
Anthony, E., & Sons,	$43.50	
Boston Daily Advertiser,	79.50	
Guild, Curtis & Co.,	24.00	
Journal Newspaper Co.,	132.00	
Mercury Pub. Co.,	24.00	303.00
Assessors:		
Anthony, E., & Sons,	$8.17	
Galligan, J. H.,	1.75	
Hatch & Co.,	.65	
Kirby & Hicks,	2.00	
Mills, M. T.,	367.94	
Paul, Frank,	138.00	
Pease, J. H.,	298.38	
Peirce, E. M.,	12.50	
Rodgers, J. D.,	76.50	
Russell, H. C.,	327.29	
Russell, W. A.,	4.75	
Sherman, C. R., & Son,	.25	
Slater, James,	95.25	
Topham, R. R.,	346.00	
Tuell, C. A.,	116.25	1,795.68
Damages, Legal Expenses, &c.:		
Collet, U. E.,	$1.50	
Crapo, Clifford & Clifford,	13.45	
Deschinger, Ludwig,	250.00	
Geddis, H. S.,	450.00	
Gillespie, James,	100.00	
Harrington, M. P.,	100.00	
Knowlton, H. M.,	100.00	
Mackie, Dr. J. H.,	25.00	
Pager, Adel,	12.50	
Perry, A. E.,	106.97	
Quinan, Thomas,	100.00	
Rounds, John,	120.00	
Sherman, C. P.,	15.00	
Smith, Mrs. Lucinda,	500.00	1,894.42
Amount carried forward,		$3,993.10

Amount brought forward,		$3,993.10
ELECTIONS:		
Anthony, E., & Sons,	$339.47	
Ashley, I. L.,	9.00	
Bradley, W. E.,	6.00	
Briggs, C. F.,	25.00	
Briggs & Lawrence,	10.62	
Coffin Bros.,	31.25	
Cornell & Swift,	15.00	
Damrell & Upham,	2.10	
Douglass, A. R.,	2.55	
Faunce, C. L.,	343.44	
Gomley, J. A.,	48.25	
Hathaway, L. J.,	.50	
Hayden, Eugene,	12.00	
Jason, A. V.,	14.00	
Jones, I. M.,	8.00	
King, P. H.,	9.00	
Kirby & Hicks,	14.00	
Mercury Pub. Co.,	190.50	
Notter, John,	2.30	
Perry, S. F., & Son,	3.00	
Piper, A. D.,	20.00	
Piper, D. M.,	4.00	
Piper, J. Arthur,	25.00	
Precinct Officers,	1,395.50	
Reynolds, E. G.,	9.00	
Richards, W. D.,	14.70	
Saxon, G. E.,	36.00	
Searles, Mortimer,	16.50	
Sherman, W. H.,	3.00	
Standard Ballot Box Co.,	1.00	
Sullings, Kingman & Co.,	.15	
Taber, C. G.,	10.00	
Whitcomb, H. C., & Co.	3.42	
Wood, E. B., & Son,	5.00	2,629.25
LABOR AND CLEANING:		
Douglass, A. R.,	$136.85	
Guinn, Isaac,	18.00	
Hood, Warren,	19.00	
McAuliffe, D. J.,	555.50	
Piper, A. D.,	112.00	
Amount carried forward,		$6,622.35

Amount brought forward,		$6,622.35
Piper, A. D., Jr.,	65.00	
Piper, D. M.,	344.71	1,251.06
LIGHT AND FUEL:		
Corson, T. S.,	$210.33	
Edison Electric Ill. Co.,	2,181.39	
Hart & Akin,	466.15	
N. B. Gas Light Co.,	488.17	
Phillips, Lawson,	45.30	
Phillips, H. T..	10.00	3,401.34
BIRTH, MARRIAGE AND DEATH RETURNS:		
Brownell, Dr. W. E.,	$7.75	
Chase, Dr. Ann H.,	6.50	
Ellis, Louisa A.,	1.00	
Fortin, Dr. J. E.,	9.50	
Hanlon, Mrs. Mary,	1.00	
Howland, Dr. B. C.,	5.75	
Jean, J. B.,	35.00	
Leonard, D. B.,	744.75	
Lussier, C. F.,	5.75	
Mann, Margaret A.,	3.75	
Murphy, T. J.,	54.75	
Normandin, Dr. L. Z.,	37.00	
Perry, Dr. E. B.,	4.50	
Peterson, Dr. C. A. B.,	4.75	
Potter, Dr. W. G.,	.25	
Richardson, Sarah E.,	2.00	
Shaw, Dr. J. C.,	12.25	
Swift, Dr. W. N.,	5.25	
Thompson, Elizabeth,	4.50	
Vaughan, W. C., Jr.,	28.25	
Webber, Dr. A. P.,	3.50	
Webster, Dr. H. W.,	17.75	
Williams, J. S.,	29.75	
Wilson, E. T.,	65.00	1,090.25
INSPECTOR OF MILK, PROVISIONS, &C.:		
Almy, J. T.,	$5.00	
Anthony, E., & Sons,	3.00	
Ashley, Dr. D. C.,	122.18	
Forbes, J. R., & Co.,	4.50	
Amount carried forward,		$12,365.00

Amount brought forward,		$12,365.00
Hathaway, Nath.,	5.00	
Hutchinson, H. S., & Co.,	1.47	
Jay, J. A.,	21.10	
Sowle, F. A.,	4.50	
Wade, J. B.,	6.00	
Waite, B. H.,	29.70	
Wing, C. F.,	9.24	211.69
MISCELLANEOUS:		
Acushnet Iron Co.,	$83.74	
Allen, J. H.,	1.50	
Almy, J. T.,	2.50	
American Pub. Co.,	35.00	
Ashley, Dr. D. C.,	76.64	
Ashley, I. L.,	84.00	
Assessors,	75.00	
Bancroft, J. V.,	83.20	
Baylies, Clifford,	339.50	
Bliss, G. C.,	9.38	
Briggs & Lawrence,	6.00	
Brownell, H. M.,	27.25	
Chamberlain, C. C.,	25.00	
Clifford, Walter,	26.00	
Coe, I. H.,	83.33	
Cooper, William,	3.00	
Cornell, C. F.,	5.75	
Cranston, O. W.,	1.10	
Crapo, Mrs. Sarah,	6.43	
Crapo, W. H.,	4.00	
Cummings, C. S. & B.,	6.50	
Doran, William,	90.70	
Douglass, F. M.,	1.80	
Doyle, James,	39.50	
Drake, A. B.,	3,848.90	
Duff, David, & Son,	3.00	
Expenses of City Offices and Committees,	597.22	
Fall River Machine Co.,	100.00	
Fox, G. S., Agent,	11.10	
Gammons, E. H.,	6.00	
Gifford, T. J., & Co.,	3.20	
Grand Army Posts,	400.00	
Gray, C. A.,	2.53	
Amount carried forward,		$12,576.69

Amount brought forward,		$12,576.69
Greenough, W. A., & Co.,	12.00	
Grinnell, Edmund,	4.38	
Hayes, N. P.,	3.00	
Houghton, C. W., Agent,	12.00	
Howard, W. M.,	13.50	
Howland, H. B.,	1.50	
Howland, Jona., Jr.,	11.25	
Kempton, David's Estate,	56.25	
Kirby & Hicks,	25.75	
Maine, H. M.,	3.35	
Martin, Etta F.,	350.00	
Maxfield, G. F.,	2.75	
Mills, M. T.,	95.00	
N. B. Cordage Co.,	.78	
N. B. Ice Co.,	87.02	
N. B. Post Office,	10.90	
North Congregational Church,	120.00	
Old Colony R. R. Co.,	555.75	
Paul, Frank,	46.25	
Pease, J. H.,	32.50	
Pope, A. P.,	378.51	
Props. Ricketson Block,	450.00	
Purrington & Brown,	.20	
Richards, G. D.,	19.25	
Rodgers, J. D.,	30.00	
Russell, C. C.,	12.50	
Russell, C. D'O.,	2.50	
Russell, H. C.,	32.50	
Sanders, William, Supt.,	388.58	
Searles, Mortimer,	15.25	
Sherman, C. R., & Son,	4.75	
Sherman, Ruth S.,	583.57	
Sisson, A. B.,	35.00	
Slater, James,	56.25	
So. Mass. Telephone Co.,	490.03	
Sowle, F. A.,	1.65	
Sullings, Kingman & Co.,	17.00	
Topham, R. R.,	253.12	
Tuell, C. A.,	42.50	
Wing, J. B.,	5.00	
Wood, E. B., & Son,	27.00	
W. & R. Wharf,	175.00	
Amount carried forward,		$12,576.69

Amount brought forward,		$12,576.69
W. U. Telegraph Co.,	52.16	
Yale Time Lock Co.,	15.00	10,620.02
		$23,196.71
To transfer to "Printing, Binding & Stationery,"		5,500.00
		$28,696.71

Cr.

Jan. 5, 1889. By balance,		$120.00
By appropriation,	$10,569.00	
Transfer from Unappropriated Funds,	16,600.00	
Cash receipts as per Treasurer's report,	27.50	27.196.50
Transfers to balance,		1,380.21
		$28,696.71

PRINTING, BINDING AND STATIONERY.

Dr.

Anthony, E., & Sons,	$480.14	
Dews, Edwin,	610.89	
Hathaway, H. C.,	4.95	
Howland, Paul, Jr.,	36.50	
Hutchinson, H. S., & Co.,	487.68	
Kane, D. J., & Bro.,	336.75	
Lawton, J. M., Jr.,	18.00	
Mercury Pub. Co.,	3,820.65	
Sherman, C. R., & Son,	39.74	
Taber, R. W.,	34.32	$5,869.62
To transfer to balance,		630.38
		$6,500.00

Cr.

By transfer from Incidentals,	$5,500.00	
Special appropriation,	1,000.00	$6,500.00

BALANCE OF PUBLIC PROPERTY.

DR.

To bonds issued,	$105,000.00	
Jan. 6, 1890. To balance,	944,354.75	$1,049,354.75

CR.

Jan. 7, 1889. By balance,	$928,497.77	
By bonds paid,	45,000.00	
Commissioners of Sinking Funds,	27,556.98	
Increase in valuation,	48,300.00	$1,049,354.75

CR.

Jan. 6, 1890. By balance,	$944,354.75

PUBLIC PROPERTY

(OTHER THAN WATER WORKS.)

DR.

Jan. 7, 1889. To balance,	$983,600.00	
To excess of valuation over 1888,	48,300.00	$1,031,900.00

CR.

Jan. 6, 1890. By balance,	$1,031,900.00

DR.

Jan. 6, 1890. To balance,	$1,031,900.00

SINKING FUND COMMISSIONERS.

DR.

Jan. 7, 1889. To balance,	$52,897.77	
To increase in hands of Commissioners over 1888,	27,556.98	$80,454.75

CR.

Jan. 6, 1890. By balance,	$80,454.75

DR.

Jan. 6, 1890. To balance,	$80,454.75

UNAPPROPRIATED FUNDS.

Dr.

To transfers to		
Appropriations, Special, 1889,	$40,938.49	
" " 1888,	19,406.84	
Highways and Streets,	2,500.00	
Incidentals,	16,600.00	
Repairs of City Property,	300.00	$79,745.33

Cr.

By Cash receipts, as per Treasurer's report,	$79,745.33

TRUST FUNDS.

Cr.

By Sylvia Ann Howland Free Public Library Fund:	
One-half of the bequest of Sylvia Ann Howland for the support of Liberal Education and Free Public Library,	$50,000.00
By Sylvia Ann Howland Educational Fund:	
One-half of the bequest of Sylvia Ann Howland for the support of Liberal Education and the Free Public Library,	50,000.00
By George Howland, Jr., Fund:	
Donation to Free Public Library,	1,600.00
By Charles W. Morgan Fund:	
Bequest to Free Public Library,	1,000.00
By Oliver Crocker Fund:	
Bequest to Free Public Library,	1,000.00
By James B. Congdon Fund:	
Donation to Free Public Library,	500.00
By Jonathan Bourne Prize Fund:	
Donation to School Committee,	1,000.00
By George O. Crocker Fund:	
Bequest to Free Public Library,	10,000.00
Amount carried forward,	$115,100.00

Amount brought forward,		$115,100.00

By Cemetery Fund Deposited in the Treasury by:

Allen, Charles F.,	$25.00
Allen, Gideon,	100.00
Backman, George W.,	50.00
Bamford, S. & J. H.,	75.00
Barker, John P.,	50.00
Bierstadt, Edward,	100.00
Blackmer, William, Estate of,	50.00
Blakely, Richard,	100.00
Blossom, E. R.,	15.00
Booth, C. F.,	75.00
Bourne, Elisha,	100.00
Bourne, Jonathan,	100.00
Brightman, L. F.,	100.00
Brownell, Frederick A.,	50.00
Buchanan, Thomas,	100.00
Canfield, William,	100.00
Cave, James,	100.00
Churchill, Hiram,	50.00
Clark, B.,	60.00
Clark, Joseph,	100.00
Colesworthy, Emeline,	15.00
Congdon, S. and E.,	100.00
Cook, Julia A.,	30.00
Cornell, William, Jr.,	25.00
Crapo, Sarah A., "Rural,"	50.00
Crapo, Sarah A., "Oak Grove,"	50.00
Cross, Sylvia G.,	150.00
Davis, Aaron,	25.00
Davis, Nicholas,	50.00
Delano, Abraham,	100.00
Devoll, Joseph,	50.00
DeWolf, William H.,	75.00
Dexter, C. E.,	100.00
Drew, Francis,	50.00
Durfee, Thomas,	50.00
Dyer, Asa,	50.00
Dyer, Emma W.,	100.00
Eaton, Jacob,	50.00
Ferguson, Jireh L.,	50.00
Gardner, Edmund,	100.00
Amount carried forward,	$115,100.00

Amount brought forward,		$115,100.00
Gellett, Harriet A.,	100.00	
Gibbs, Robert,	80.00	
Greene, L. P.,	100.00	
Greene, David R.,	100.00	
Hafford, Benjamin,	75.00	
Harris, William, Trustee of will of,	100.00	
Hart, Amelia,	75.00	
Hill, Phebe,	50.00	
Hitch, Charles, Estate of,	200.00	
Howe, Moses G.,	125.00	
Howland, Hester A.,	100.00	
Howland, Jonathan,	150.00	
Howland, Jonathan,	40.00	
Howland, Susan,	100.00	
Hunt, John,	100.00	
Hunt, Mary H.,	100.00	
Ingalls, Seth H. and William,	100.00	
Jenney, Caleb T.,	100.00	
Jenney, Leonard,	100.00	
Johnson, E. R., Estate of,	300.00	
Jones, Samuel,	100.00	
Kelley, Ezra,	100.00	
Knights, William,	100.00	
Knowles, John P.,	100.00	
Kollock, Lemuel,	100.00	
Lee, George,	100.00	
Macomber, Henry B.,	50.00	
Maxim, William,	50.00	
Mellis, John,	50.00	
Menage, Henry G.,	50.00	
McKenzie, Alexander,	60.00	
Mills, James,	50.00	
Moore, Ann M.,	25.00	
Murdock, Ann E.,	44.93	
Nelson, Mary A.,	150.00	
Oliver, H. G.,	75.00	
Owen, Elizabeth,	75.00	
Peirce, Amy A. S.,	50.00	
Peirce, Bradford S.,	100.00	
Peirce, David R.,	50.00	
Peirce, Lloyd N.,	100.00	
Peirce, Otis H.,	100.00	
Purrington, N. S.,	75.00	
Records, Ellery,	50.00	
Amount carried forward,		$115,100.00

Amount brought forward,		$115,100.00
Richmond, Joshua,	100.00	
Robeson, Emily P.,	100.00	
Rodman, Benjamin,	100.00	
Rose, Mary A.,	50.00	
Russell, Gilbert,	100.00	
Russell, William T.,	100.00	
Russell, Wing,	50.00	
Seabury, Cornelius,	100.00	
Seabury, Humphrey W.,	285.00	
Sherman, Lucy T.,	100.00	
Sherman, Wing, Estate of,	100.00	
Simmons, Sarah E.,	50.00	
Sisson, Job, Jr.,	50.00	
Sisson, Phebe B.,	75.00	
Smith, Shubael,	50.00	
Snell, Thomas,	100.00	
Snow, Loum,	100.00	
Soule, William T., et al.,	100.00	
Spencer, C. L.,	100.00	
Spooner, Paul, for,	100.00	
Staples, Calvin,	100.00	
Star in the East Lodge and Adoniram Royal Arch Chapter, F. & A. M.,	50.00	
Stetson, Nathaniel,	50.00	
Stranberg, Caroline,	50.00	
Swain, Oliver,	50.00	
Sweet, Betsey B.,	25.00	
Swift, Jireh and wife,	50.00	
Taber, Henry,	100.00	
Taber, Lucy B.,	100.00	
Taylor, Mary B.,	25.00	
Thomas, Henry F., Estate of,	150.00	
Tobey, Franklin,	70.00	
Tompkins, Eliza,	50.00	
Waite, Benjamin H.,	200.00	
Ward, S. J.,	100.00	
West, B. H.,	50.00	
Wheaton, Hiram,	100.00	
Wilbur, Mary A.,	50.00	
Williams, Lloyd, and Jos. Antone,	100.00	
Wilson, George,	100.00	
Wood, Borden,	50.00	
Wordell, Brayton B.,	50.00	10,349.93
		$125,449.93

TEMPORARY LOAN.

Dr.

To paid loans,		$525,000
Jan. 6, 1890. To Balance,		90,000
		$615,000

Cr.

Jan. 5, 1889. By Balance,	$125,000	
By sundry loans,	490,000	$615,000

Cr.

Jan. 6, 1890. By Balance,	$90,000

BONDS OF THE CITY OF NEW BEDFORD.

TITLES, RATES, AMOUNTS DUE ANNUALLY, AND TOTALS.

	Sewer Bonds, 4s.	Old Bonds, 5s.	Water Bonds, 6s.	Water Bonds, 7s.	Bridge, etc., 6s.	City Impvt. Bonds, 6s.	Totals.
1890,	$10,000		$20,000	$10,000	$5,000		$45,000
1891,	10,000		20,000	10,000		$10,000 R.	50,000
1892,			20,000	10,000		10,000 C.	40,000
1893,		Water 4s.	20,000		City Imp.	5,000 R. 8,000 C.	33,000
1894,		$100,000	20,000		3½s.	10,000 C.	130,000
1895,			20,000		80,000	10,000 C.	110,000
1896,			20,000	City Impt.	25,000	10,000 C.	55,000
1897,			20,000	4s.	35,000	10,000 R.	65,000
1898,			20,000	15,000		10,000 C.	45,000
1899,		Water 5s.	20,000	62,000	Water 7s.	10,000 C.	92,000
1900,		20,000			10,000	10,000 R.	40,000
1901,		20,000			10,000	10,000 R.	40,000
1902,		20,000			10,000	10,000 R.	40,000
1903,		20,000			10,000	5,000 C. 5,000 R.	40,000
1904,		20,000			10,000	10,000 R.	40,000
1905,		Sewer 3½s.	20,000		10,000	10,000 R.	40,000
1906,		60,000	20,000		10,000	10,000 R.	100,000
1907,		15,000	20,000		10,000	10,000 R.	55,000
1908,	35,000		20,000		10,000	10,000 R.	75,000
1909,	43,000		20,000		10,000	5,000 C. 5,000 R.	83,000
1910,		Water 4s.				30,000 C.	30,000
1918,		20,000					20,000
		Total,					$1,268,000

Amount of Water Bonds, 7s,		$130,000	
" 5s,		100,000	
" 6s,		300,000	
" 4s,		120,000	
Bridge, etc., 6s,		5,000	
Sewer Bonds, 4s,		98,000	
Sewer Bonds, 3½s,		75,000	
City Improvement Bonds, 6s,		223,000	
" " 3½s,		140,000	
" " 4s,		77,000	$1,268,000

INTEREST AS PAYABLE YEARLY.

			Totals.
1890.	On $130,000 Water Bonds, at 7 per cent.,	$9,100	
	100,000 " " 5 "	5,000	
	300,000 " " 6 "	18,000	
	120,000 " " 4 "	4,800	
	223,000 City Improvement Bonds, at 6 per cent.,	13,380	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	5,000 Bridge Bonds, at 6 per cent.,	300	
	98,000 Sewer Bonds, at 4 "	3,920	
	75,000 Sewer Bonds, at 3½ "	2,625	
	77,000 City Improvement Bonds, 4 per cent.,	3,080	$65,105
1891.	On $120,000 Water Bonds, at 7 per cent.,	$8,400	
	100,000 " " 5 "	5,000	
	280,000 " " 6 "	16,800	
	120,000 " " 4 "	4,800	
	223,000 City Improvement Bonds, at 6 per cent.,	13,380	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	88,000 Sewer Bonds, at 4 per cent.,	3,520	
	75,000 Sewer Bonds, at 3½ "	2 625	
	77,000 City Improvement Bonds, 4 per cent.,	3,080	$62,505
1892.	On $110,000 Water Bonds, at 7 per cent.,	$7,700	
	100,000 " " 5 "	5,000	
	260,000 " " 6 "	15,600	
	120,000 " " 4 "	4,800	
	213,000 City Improvement Bonds, at 6 per cent.,	12,780	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	78,000 Sewer Bonds, at 4 per cent.,	3,120	
	75,000 Sewer Bonds, at 3½ "	2,625	
	77,000 City Improvement Bonds, 4 per cent.,	3,080	$59,605
1893.	On $100,000 Water Bonds, at 7 per cent.,	$7,000	
	100,000 " " 5 "	5,000	
	240,000 " " 6 "	14,400	
	120,000 " " 4 "	4,800	
	203,000 City Improvement Bonds, at 6 per cent.,	12,180	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	78,000 Sewer Bonds, at 4 per cent ,	3,120	
	75,000 Sewer Bonds, at 3½ "	2,625	
	77,000 City Improvement Bonds, 4 per cent.,	3,080	$57,105

THE FOLLOWING TABLE EXHIBITS THE TOTAL AMOUNT OF THE BONDED DEBT OF THE CITY; THE AMOUNT OF BONDS PAYABLE EACH YEAR; THE AMOUNT DUE EACH YEAR FOR INTEREST; AND THE AGGREGATE OF BOTH PRINCIPAL AND INTEREST TO BE PAID IN LIQUIDATION.

Years.	Bonds.	Interest.	Amount.
1890,	$45,000	$65,105	$110,105
1891,	50,000	62,505	112,505
1892,	40,000	59,605	99,605
1893,	33,000	57,105	90,105
1894,	130,000	55,125	185,125
1895,	110,000	49,325	159,325
1896,	55,000	44,725	99,725
1897,	65,000	42,050	107,050
1898,	45,000	39,025	84,025
1899,	92,000	36,625	128,625
1900,	40,000	32,345	72,345
1901,	40,000	30,045	70,045
1902,	40,000	27,745	67,745
1903,	40,000	25,445	65,445
1904,	40,000	23,145	63,145
1905,	40,000	20,845	60,845
1906,	100,000	18,345	118,345
1907,	55,000	13,745	68,745
1908,	75,000	10,720	85,720
1909,	83,000	6,820	89,820
1910,	30,000	2,600	32,600
1911,		800	800
1912,		800	800
1913,		800	800
1914,		800	800
1915,		800	800
1916,		800	800
1917,		800	800
1918,	20,000	400	20,400
	$1,268,000	$728,995	$1,996,995

BONDS PAYABLE IN 1890:

Bridge, etc., Bonds,	$ 5,000	
Water Bonds, 7s,	10,000	
Water Bonds, 6s,	20,000	
Sewer Bonds, 4s,	10,000	$45,000

INTEREST PAYABLE IN 1890:

On $650,000 Water Bonds,	$36,900	
223,000 City Improvement Bonds,	13,380	
140,000 City Improvement Bonds, 3½s,	4,900	
173,000 Sewer Bonds,	6,545	
5,000 Bridge, etc., Bonds,	300	
77,000 City Improvement Bonds, 4s,	3,080	65,105
Trust Funds ($105,100 at 6 per cent.),	$6,306	
($10,000 at 4 per cent.),	400	6,706
Total,		$116,811

THE FOLLOWING TABLE SHOWS THE AMOUNT OF TAXES LEVIED IN THIS CITY SINCE 1869, AND THE RATE PER THOUSAND, FOR STATE, COUNTY, AND CITY PURPOSES; ALSO THE NUMBER OF POLLS.

Year.	Valuation of Real Estate.	Valuation of Personal Property.	State Tax.	County Tax.	City Tax.	Overlay.	No. of Polls.	Rate of Tax.
1870,	$8,774,500	$14,221,514.00	$49,425	$17,840.02	$290,000	$9,475.20	5,251	$15.00
1871,	9,115,600	13,844,651.67	49,425	22,705.48	293,300	12,599.52	5,333	16.00
1872,	10,050,800	13,742,898.00	32,280	18,943.65	356,000	13,181.96	5,577	17.20
1873,	11,125,700	14,114,364.20	36,315	23,679.57	349,000	11,454.46	5,780	16.20
1874,	11,665,400	13,846,904.95	32,280	27,874.24	354,000	11,005.10	5,930	16.20
1875,	11,946,600	14,428,674.00	32,280	28,415.48	383,000	17,136.07	6,226	17.00
1876,	12,411,200	14,339,002.00	26,244	23,859.86	387,000	20,251.49	6,651	16.60
1877,	12,609,200	13,524,097.00	21,870	23,859.86	436,200	17,273.46	6,562	18.60
1878,	12,808,700	13,137,011.20	14,580	25,249.76	371,500	17,259.61	6,729	16.00
1879,	12,898,300	12,874,418.00	7,290	25,666.72	386,000	17,497.36	6,891	16.40
1880,	13,138,400	13,137,519.00	21,870	28,377.03	361,250	15,080.89	7,028	15.70
1881,	13,505,400	13,609,922.00	21,870	26,871.30	437,300	16,084.49	7,025	18.00
1882,	14,138,300	13,974,587.00	29,160	25,689.88	434,200	17,605.64	7,340	17.50
1883,	15,109,300	15,180,305.00	25,770	29,468.95	452,400	16,614.41	7,694	16.80
1884,	15,635,900	15,718,182.00	34,360	26,668.72	462,700	13,031.04	8,141	16.60
1885,	16,293,800	15,104,090.00	25,770	27,735.50	457,950	17,028.11	8,349	16.30
1886,	16,778,900	15,416,695.50	27,015	33,883.77	456,300	15,328.18	8,699	16.00
1887,	17,372,600	15,309,658.00	40,522½	38,485.28	489,700	18,075.50	9,056	17.40
1888,	18,023,700	15,430,647.00	40,522½	41,274.10	486,411	19,364.29	9,424	17.00
1889,	18,928,800	15,718,866.00	34,700	51,476.17	508,600	17,642.91	9,972	17.10

Average rate for 20 years, $16.68.

City of New Bedford.

In Committee, March 15, 1890.

The sub-committee appointed by the Committee on Finance to appraise the city property and prepare a schedule of the same, have attended to that duty, and submit the following report, viz. :

Poor Department:		
Alms-house and out-buildings,	$26,000	
Old alms-house and out-buildings,	1,500	
Small pox hospital,	1,000	
Farm, containing 70 acres,	12,500	
Furniture in alms-house,	2,700	
Furniture in hospital,	75	
Farming and mechanics' tools,	450	
Stone machine,	50	
Tedders, horse-rake, manure-spreader, etc.,	400	
Carts, gears, and lumber wagons, etc.,	1,300	
Ambulance,	300	
Horses, oxen, cows, hogs, and poultry,	1,800	
Hay, grain, vegetables, pork, etc.,	2,425	
Wood and coal shed, corner North Second and North streets,	3,000	
Wood in shed,	500	$54,000
Highways and Streets Department:		
Sundries, as per Superintendent's report,		25,300
Sewer Department:		
Sundries, as per Superintendent's report,		5,000
Street Light Department:		
Gas and naphtha lamps, posts, and lanterns,	$7,150	
Two houses for oil, etc.,	300	
Tools for Petroleum Inspector,	50	7,500
Public Buildings, Land, etc.:		
City hall and lot,	$70,000	
City library building and lot,	75,000	
Amount carried forward,		$91,800

Amount brought forward,		$91,800
City common,	50,000	
Rural cemetery,	20,000	
Oak Grove cemetery,	15,000	
Pine Grove cemetery,	800	
Central police station and lot,	18,000	
Willis street police station and lot,	2,500	
West police station,	325	
South police station,	250	
Volumes in the City Library,	48,000	
Scales at city stables,	300	
Land on Clark's Point,	200	
Powder magazine,	450	
South pound lot,	200	
Ward house and lot, Fifth ward,	1,400	
Ward house and lot, Sixth ward,	1,600	
Standard weights and measures,	300	
Surveying instruments,	300	
Two brass field pieces, muskets, etc.,	1,300	
Police station and lot, corner Bowditch and Weld streets,	16,000	
New city stable and lot,	38,575	360,500
SCHOOL DEPARTMENT:		
Acushnet school-house and lot,	$4,500	
Acushnet avenue " "	25,000	
Arnold street " "	900	
Cannonville " "	1,500	
Cedar street " "	6,500	
Cedar Grove street " "	25,000	
Clark's Point " "	800	
Dartmouth street " "	10,000	
Fifth street " "	50,000	
Fourth street " "	7,000	
Grove " "	2,500	
High " "	127,000	
High street " "	2,000	
Kempton street " "	5,000	
Linden street " "	2,500	
Maxfield street " "	20,000	
Merrimac street " "	18,000	
Middle street " "	30,000	
North (Tobey road) " "	500	
Amount carried forward,		$452,300

Amount brought forward,		$452,300
Parker street school-house and lot,	$50,000	
Plainville " "	1,000	
Rockdale " "	1,200	
William street " "	5,000	
Apparatus in school-houses,	12,000	
Truant school-house,	1,700	
Thompson street school-house and lot,	36,000	
Harrington school-house and lot,	53,000	
Division street school-house lot,	6,000	504,600
FIRE DEPARTMENT:		
Engine-house and lot, Acushnet,	$600	
" " Hillman street,	12,000	
" " Purchase street,	12,000	
" " Purchase street,	12,000	
" " Sixth street,	13,000	
" " Fourth street,	13,000	
" " Durfee street,	9,500	
Steam fire engine Onward, No. 1,	2,500	
" " Progress, No. 2,	3,600	
" " Excelsior, No. 3,	500	
" " C. Howland, No. 4,	3,600	
" " Z. Hillman, No. 5,	3,000	
" " Fred. Macy, No. 6,	3,600	
" " Old No. 2,	2,500	
Seven hose carriages,	4,500	
Hand engine,	200	
Hayes truck,	3,000	
Hook and ladder carriage and ladders,	1,800	
Three sleigh reels,	300	
Hose,	9,000	
Twenty-five horses and harnesses,	6,000	
Seven wagons,	1,500	
Fire alarm telegraph, including bells, strikers, etc.,	14,000	
Sundries,	2,000	133,700
NEW BEDFORD WATER WORKS,		1,200,000
		$2,290,600

RECAPITULATION.

Poor Department,	$54,000	
Highways and Streets Department,	25,300	
Sewer Department,	5,000	
Street Light Department,	7,500	
Public buildings, land, etc.,	360,500	
School Department,	504,600	
Fire Department,	133,700	
New Bedford Water Works,	1,200,000	$2,290,600

Respectfully submitted.

JOSEPH DAWSON,
LOUM H. FAUNCE,
SAMUEL H. PERRY,
} Committee.

AUDITOR'S TRIAL BALANCE, JAN. 6, 1890.

Dr.

N. B. Water Works (as Public Property),	$1,200,000.00	
Public Property (other than Water Works),	1,031,900.00	
Sinking Fund Commissioners,	80,454.75	
Real Estate Tax Account,	297.58	
Appropriations, General, 1889,	31,839.07	
" " 1888,	11,380.50	
" " 1887,	2,140.89	
" Special, 1889,	93,556.07	
Com. of Massachusetts, Chap. 252,	3,841.15	
" " " 298 of 1889,	226.00	
" " " 301,	4,370.05	
Court Judgments,	2,778.13	
Public Debt,	2,234.86	$2,465,019.05
		25,625.43
		$2,490,644.48

Cr.

Trust Funds,	$115,000.00	
Bonds,	1,268,000.00	
Balance of Public Property,	944,354.75	
Cemetery Funds,	10,349.93	
Dartmouth Street School-House Ex.,	5,822.65	
Engine-House and Lot, Durfee st.,	5,114.57	
Engine-House, No. 5, Alterations,	3,500.00	
Free Public Library, Trustees,	7,089.43	
Free Public Library, Dog Fund,	173.82	
Harrington School-House and Lot,	225.00	
N. B. School Committee, Howland Fund,	2,908.14	
" " Jonathan Bourne Prize Fund,	30.00	
N. B. Water Works,	31,504.57	
Public Schools, Dog Fund,	2,026.78	
Repairs of City Property,	300.00	
School-House at Head-of-the-River,	3,727.80	
Sewers, Pearl and Willis sts., Ex.,	417.04	
Temporary Loan,	90,000.00	$2,490,644.48

City of New Bedford,
Auditor's Office, January 6, 1890.
WILLIAM B. TOPHAM, City Auditor.

ANNUAL REPORT

OF

COLLECTOR OF TAXES

FOR

THE YEAR 1889.

In Board of Aldermen,

March 13, 1890.

Received and ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,

City Clerk.

In Common Council,

March 13, 1890.

Concurred.

WM. A. MACKIE,

Clerk.

Statement of the Collector of Taxes,

1889.

City of New Bedford,

Collector's Office,

January 6th, 1890.

To the City Council:

Gentlemen,— I herewith respectfully present to you my account as Collector of Taxes, embracing a statement in full of the various transactions in this department, for the financial year ending at this date.

COLLECTOR'S STATEMENT FROM 1882 TO 1888 INCLUSIVE.

Financial Year.	Unpaid Jan. 7, 1889.	Paid and Remitted.	Unpaid Jan. 6, 1890.
1882,	$5,229.02	$5,229.02	
1883,	5,700.79	4.65	$5,696.14
1884,	6,074.86	94.09	5,980.77
1885,	6,653.26	42.53	6,610.73
1886,	5,640.24	85.40	5,554.84
1887,	12,220.43	3,960.62	8,259.81
1888,	18,675.75	7,018.90	11,656.85
	$60,194.35	$16,435.21	$43,759.14

COLLECTOR'S STATEMENT.

TAXES OF 1889.

CHARGES.

Amount of tax bills,		$612,419.09
State tax,	$34,700.00	
County tax,	51,476.17	
City tax,	508,600.00	
Overlay,	17,642.92	$612,419.09

PAYMENTS.

State tax,	$34,700.00	
County tax,	51,476.17	
City Treasurer,	476,760.93	
Discount,	29,604.79	
Abatements by Assessors,	527.29	
Balance unpaid,	19,349.91	$612,419.09

The balance of taxes of 1889 unpaid at this date is but $3\frac{16}{100}$ per cent. of the whole assessment.

Our portion of the State tax for 1889 was $5,822.50 less than in 1888, and our portion of the County tax for 1889 was $10,202.07 in excess of that of the previous year. The total amount paid, as shown above, was $86,-176.17, a net increase of $4,379.57 over 1888; the tax rate for 1889 was $17.10 per one thousand dollars; of that rate $2.50 per thousand was required for the State and County taxes alone, a little more than one-seventh of the whole assessment.

For a statement of the amounts received from the Commonwealth of Massachusetts for corporation and other taxes, allow me to refer you to my report as City Treasurer for the past year.

Respectfully submitted.

JAMES H. HATHAWAY,
Collector of Taxes.

ANNUAL REPORT

OF THE

CITY TREASURER

FOR 1890.

In Board of Aldermen,

March 13, 1890.

Received and ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,

City Clerk.

In Common Council,

March 13, 1890.

Concurred.

WM. A. MACKIE,

Clerk.

Statement of the City Treasurer,

JANUARY 6, 1890.

CITY OF NEW BEDFORD,

TREASURER'S OFFICE, January 6, 1890.

To the City Council:

GENTLEMEN,— I herewith present to you, as required by the ordinances of the city, my account as City Treasurer for the financial year ending at this date.

Very respectfully,

JAMES H. HATHAWAY,

City Treasurer.

PAYMENTS INTO THE TREASURY.

The balance in the treasury at the close of the last financial year, and the receipts during the year ending at this date, are set forth in the statements that follow, viz.:

Balance, January 7, 1889,		$39,825.06
RECEIPTS FROM COLLECTOR OF TAXES.		
1883,	$ 4.65	
1884,	94.09	
1885,	42.53	
1886,	85.40	
1887,	3,960.62	
1888,	7,018.90	
1889,	476,760.93	$487,967.12

APPROPRIATIONS, GENERAL, 1886.

Amount received from State Treasurer:		
Part of corporation tax of 1889,		$76.74

APPROPRIATIONS, GENERAL, 1889.

Amount received from State Treasurer:		
Part of corporation tax 1889, estimate of City Council,	$20,000.00	
Part of same, for abatement,	10,000.00	30,000.00

APPROPRIATIONS, SPECIAL, 1888.

From Improvement Bonds issued,	$62,000.00	
From Sewer Bonds issued,	43,000.00	105,000.00

CEMETERIES.

Received from sale of lots:		
Oak Grove Cemetery,	$1,470.00	
Rural Cemetery,	1,200.00	2,670.00

CEMETERY FUNDS.

Amounts received from sundry parties for the permanent care of lots:	
Gideon Allen, Rural,	$100.00
S. & J. H. Bamford, Oak Grove,	75.00
L. F. Brightman, Oak Grove,	100.00
Elisha Bourne, Oak Grove,	100.00
William Canfield, Oak Grove,	100.00
James Cave, Oak Grove,	100.00
Hiram Churchill, Rural,	50.00
Abraham Delano, Oak Grove,	100.00
Emma W. Dyer, Oak Grove,	100.00
Benjamin Hafford, Oak Grove,	75.00
Susan Howland, Rural,	100.00
John Hunt, Rural,	100.00
Mary H. Hunt, Oak Grove,	100.00
Samuel Jones, Oak Grove,	100.00
George Lee, Oak Grove,	100.00
John Mellis, Oak Grove,	50.00
James Mills, Oak Grove,	50.00
Amy A. S. Pierce, Rural,	50.00
Otis H. Pierce, Oak Grove,	100.00
N. S. Purrington, Oak Grove,	75.00
Benjamin Rodman, Oak Grove,	100.00
Gilbert Russell, Oak Grove,	100.00

William T. Russell, Oak Grove,	100.00	
Cornelius Seabury, Rural,	100.00	
Humphrey W. Seabury, Rural,	285.00	
Job Sisson, Jr., Oak Grove,	50.00	
Phebe B. Sisson, Rural,	75.00	
Loum Snow, Rural,	100.00	
Wm. T. Soule, et al., Oak Grove,	100.00	
Benjamin H. Waite, Rural,	200.00	
Hiram Wheaton, Oak Grove,	100.00	
Lloyd Williams & Jos. Antone, Rural,	100.00	$3,135.00

COMMONWEALTH OF MASSACHUSETTS.

MILITARY AID UNDER CHAPTER 301, LAW OF 1889.

Of State Treasurer, advances of 1888,	$3,573.75	
Amounts uncalled for,	402.10	3,975.85

COMMONWEALTH OF MASSACHUSETTS.

MILITARY AID UNDER CHAPTER 279, LAW OF 1889.

Of State Treasurer, one-half of the disbursements to Jan. 1, 1889,	$3,052.56	
Amounts uncalled for,	134.00	3,186.56

FIRE DEPARTMENT.

Received from sundry sources, as follows:

American Publishing Co., overcharge,	$ 2.00	
Hathaway Mill, pumping,	437.70	
Howland Mill, pumping,	12.82	
Poor Department,	279.05	
Sale of horses,	250.00	
Sale of old material,	50.00	
Sale of reel,	45.00	1,076.57

FREE PUBLIC LIBRARY — TRUSTEES' ACCOUNT.

Income from sundry bequests, gifts, &c.:

Sylvia Ann Howland, bequest,	$3,000.00	
George Howland, Jr., gift,	96.00	
Charles W. Morgan, bequest,	60.00	
Oliver Crocker, bequest,	60.00	
James B. Congdon, gift,	30.00	
George O. Crocker, bequest,	400.00	
Returned, twice audited,	2.00	3,648.00

FREE PUBLIC LIBRARY — DOG FUND.

One-half of the receipts from the County of Bristol for dog licenses,	1,043.23

HIGHWAYS AND STREETS.

The receipts from sundry sources were as follows:

John Bertram, stone,	$38.00	
Bristol Co. House of Correction, grating,	7.90	
City of Taunton, pinion for roller,	23.55	
Dudley Davenport, sale of pork,	69.00	
N. H. Greene, sale of pork,	12.00	
Jethro Hillman, labor,	17.70	
James Hines, sale of horse,	50.00	
R. Holcomb, sale of two horses,	35.00	
E. T. Jenney, sale of pork,	11.70	
William H. Luby, sale of pork,	11.62	
James McGurk, moving house,	18.00	
Benjamin I. Stowell, sale of horse,	25.00	
Sundry departments, sewers, &c.,	15,709.85	
Sundry parties, dirt, stone, &c.,	557.41	
Sundry parties, expense entering drains,	142.35	
Sundry parties, trimming trees,	86.51	
Union Street Railway, repairs,	50.77	
J. J. B. Vermyne, flagging and labor,	146.07	
Weighing ice,	18.29	$17,030.72

INCIDENTALS.

A. H. Buckley, care of cemetery lot,	$6.00	
S. Howland, " "	6.00	
John Hunt, " "	5.00	
Emily Robeson, " "	4.50	
Loum Snow,	6.00	27.50

NEW BEDFORD SCHOOL COMMITTEE.

Income from trust funds:

Sylvia Ann Howland, bequest,	3,000.00

NEW BEDFORD SCHOOL COMMITTEE — JONATHAN BOURNE PRIZE FUND.

Income from fund to January 1, 1890,	60.00

NEW BEDFORD WATER WORKS.

Received from sundry sources, as follows:

From takers, rates,	$56,053.86	
For services and mains,	12,962.54	
For fines,	22.00	
For rents,	72.00	
For meters,	417.50	
From General Sewer Account,	29.01	
Sale of hay,	109.50	69,666.41

POLICE DEPARTMENT.

Received from the Third District Court of Bristol, and from other sources, as follows:

Daniel A. Butler, amount returned,	$ 1.50	
Dog fines,	30.00	
Mercury Publishing Co., returned,	2.05	
New Bedford Water Works,	124.80	
Officers' fees and mittimuses,	5,527.28	
Rent of court room,	400.00	$6,085.63

POOR DEPARTMENT.

The receipts have been as follows:

CITIES AND TOWNS.

Acushnet,	$128.50
Berkeley,	52.50
Boston,	193.90
Bridgewater,	55.00
Brookline,	60.00
Canton,	112.75
Chatham,	44.00
Concord,	71.00
Dartmouth,	263.75
Easton,	15.00
Fairhaven,	140.75
Fall River,	239.65
Falmouth,	43.50
Freetown,	21.25
Holyoke,	114.25
Lawrence,	104.75
Ludlow,	123.00
Middleboro,	70.75
Nantucket,	26.00
Northampton,	3.09
Palmer,	65.50
Pittsfield,	80.25
Plymouth,	109.50
Rochester,	79.00
Salem,	91.75
Southwick,	159.00
Taunton,	376.60
Tisbury,	2.00
Waltham,	151.10
Wareham,	37.00
Wellfleet,	30.00

West Bridgewater,	4.00		
Westport,	59.50		
Weymouth,	18.00		
Whitman,	3.75	$3,150.34	
From State, support, burials, &c.,		3,425.05	
Almshouse, city:			
Farm produce,	$183.00		
Fire Department, hay,	785.85		
Bailey Gifford, support,	10.00		
Hannah Harrington, board,	197.14		
Highway department,	298.90		
Mrs. Howard, board,	17.50		
Julia Martin, board,	24.40		
John McCullough, lard,	12.48		
Military Aid,	216.00		
J. H. Place, board,	3.00		
J. W. Taylor, board,	57.00		
Truant school,	1,450.52	3,255.79	
Received for support at hospitals, and from other sources:			
S. Allen,	$17.97		
John Barr, burial,	5.00		
S. A. Crandall, burial,	37.00		
S. H. Damon,	79.38		
G. P. O'Malley,	88.11		
Hugh McHugh, wife,	108.00		
Jos. Mercer,	70.00		
Ellen Pratt,	29.24		
S. W. Smith, wife,	169.46		
B. R. Watson,	217.59		
Wm. H. Weaver,	42.25		
Isaiah Wood, son,	169.46	1,033.46	$10,864.64
PUBLIC DEBT.			
Accrued interest on bonds sold,		$175.00	
Missing coupon,		30.00	
New Bedford Water Works, interest,		400.00	605.00
PUBLIC SCHOOLS — INCIDENTALS.			
New Bedford School Committee,		$13.34	
S. M. Tompkins, overpaid,		1.25	14.59
PUBLIC SCHOOLS — DOG FUND.			
County of Bristol, one-half of the dog licenses,			1,043.24

REAL ESTATE TAX ACCOUNT.

Wellington Bucklin, tax 1887,	$ 86.02	
Edward P. Haskell, tax 1887,	120.65	
Bradford Hathaway, 2d, tax 1885,	32.22	
Bradford Hathaway, 2d, tax 1886,	34.34	
Bradford Hathaway, 2d, tax 1887,	81.59	
Mary Lowe, tax 1884,	23.78	
B. C. Topham, tax 1887,	24.45	
Ruth C. Winegar, tax 1885,	19.88	$422.93

SEWERS — GENERAL ACCOUNT.

From sundry accounts,	4,188.68

SEWER — COUNTY STREET No. 2.

From Highway Department,	21.50

SEWER — OAK STREET.

From General Sewer Account,	56.54

SEWER — SOUTH FRONT STREET No. 2.

From General Sewer Account,	56 50

TEMPORARY LOAN.

Received from notes issued by authority of the City Council,	490.000.00

UNAPPROPRIATED FUNDS.

The receipts were as follows:

Betterments,— Sawyer street,			$214.38
Interest,— Deposits,		$1,381.84	
	Premium on bonds,	6,623.75	
	Taxes,	723.76	8,729.35
Licenses and fees,—	Circuses, &c.,	135.00	
	Liquor,	24,830.25	
	Milk,	176.00	
	Peddlers,	50.00	
	Pig,	134.00	
	Petroleum, &c.,	1,119.25	
	Sealer's,	52.50	26,497.00
Rents,— Armory,		400.00	
	City Hall,	787.00	1,187.00
Horatio Hathaway, changing light,			12.00
R. Johnson Estate, abating nuisance,			178.33
Permits to enter sewers,			320.00
Repairs to draw-bridge,			70.00

John Standish estate, suit,		496.69	
State, corporation taxes,		38,007.60	
Tuition of non-resident pupils,		539.71	
Unknown party, for lantern broken twenty-five years ago,		3.00	
Amounts received for sewer taxes:			
Atlantic street,	$ 77.92		
Austin street,	217.18		
Coggeshall street,	183.94		
Court street,	185.95		
Dartmouth street,	31.37		
Division street,	41.95		
Elm street,	102.91		
Griffin street,	296.80		
Hall street,	62.03		
Locust street,	55.95		
Maxfield street,	280.73		
Mt. Pleasant street,	191.91		
Richmond street,	127.52		
Rivet street,	553.87		
Sherman street,	293.04		
South Front street,	13.69		
South Second street,	153.88		
Tremont street,	5.00		
Union street,	614.63	3,490.27	$79,745.33
Total receipts, including balance Jan. 7. 1889,			$1,364,493.34

PAYMENTS.

Payments have been made upon the warrants of the mayor, as follows:

Board of Health,		$1,277.60
Cemeteries,		5,912.35
City stable and lot,		6,251.14
Com. of Mass., military aid, chapter 279,	$6,999.28	
Com. of Mass., military aid, chapter 301,	4,491.50	
Com. of Mass., military aid, chapter 298,	476.00	11,966.78
Court Judgments,		2,778.13
Dartmouth street school-house and lot, extension,		7,177.35
Division street school-house lot,		6,000.00
Engine-house and lot, Durfee street,		8,085.43
Fire Department,		37,313.53

Free Public Library,— Dog Fund,	$1,439.48	
Incidentals,	5,724.36	
Trustees' account,	5,930.50	$13,094.34
Harrington school-house and lot,		21,098.02
Highway Department,		97,521.73
Incidentals,		23,196.71
Light Department,		27,056.52
New Bedford and Fairhaven Bridge,		6,373.51
New Bedford Water Works,		68,985.49
Police Department,		65,098.36
Poor Department,		41,641.44
Printing, Binding, and Stationery,		5,869.62
Public Debt,— Principal,	45,000.00	
Interest,	73,140.86	
Interest, Trust Funds,	6,610.00	
Sinking Funds,	23,880.00	148,630.86
Public Schools,— Jonathan Bourne Fund,	$ 60.00	
Dog Fund,	113.63	
Howland Fund,	2,988.52	
Incidentals,	31,632.90	
Repairs buildings,	4,626.20	
Teachers' Pay,	81,663.66	
Truant,	2,374.64	123,459.55
Real Estate Tax Account,		379.88
Repairs of City Property,		3,357.63
Salaries,		13,828.67
School-House at Head-of-the-River,		3,062.20
Sewers,— General account,	$27,974.98	
Acushnet avenue No. 5,	652.49	
Cedar Grove street,	1,137.89	
Clinton street,	653.93	
County street No. 2,	2,606.62	
County street No. 3,	443.17	
Division street No. 2,	616.71	
Elm street No. 2,	8.75	
Gifford street,	1,141.21	
Hall street,	7.05	
James street,	2,167.39	
Kempton street No. 2,	1,754.17	
Liberty street,	771.08	
Maitland street,	315.80	
Mill street No. 2,	716.50	
Oak street,	7,267.64	
Orchard street,	263.00	
Pearl and Willis streets,	7,152.82	

Rivet street No. 2,	3,953.97	
Rivet street No. 3,	498.01	
Shawmut avenue,	657.16	
South Front street No. 2,	1,159.65	
South Water street No. 2,	116.09	
Washington street,	2,414.99	$64,451.07
Temporary Loan,		525,000.00
		$1,338,867.91
Balance, cash in Treasury, Jan. 6, 1890,		25,625.43
		$1,364,493.34

STATEMENT

OF THE

SINKING FUNDS

FOR THE

Financial Year Ending January 6, 1890.

In Board of Aldermen,

January 30, 1890.

Received and ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,

City Clerk.

In Common Council,

January 30, 1890.

Concurred.

WM. A. MACKIE,

Clerk.

REPORT OF THE TREASURER OF SINKING FUNDS.

CITY OF NEW BEDFORD,

TREASURER'S OFFICE,

January 6th, 1890.

To the Commissioners of Sinking Funds of the City of New Bedford:

GENTLEMEN,— I herewith respectfully present to you my account as Treasurer for the financial year just closed.

The amount raised by taxation during the year 1889 for municipal debt was $23,880, for water debt $600, $6680 in excess of the previous year, namely: $1720 for $43,000 of Sewer Bonds issued April 1, 1889, and $4960 for $62,000 of Improvement Bonds issued at the same date.

There are now eleven classes of bonds secured by sinking funds, all of which are provided for by appropriations by the City Council, except in the case of Class No. 9 Water Bonds, $20,000, issued April 1st, 1888, which is derived wholly from water rates as provided by law.

Amount of Sinking Funds January 1st, 1889, $52,897.77

APPROPRIATIONS BY THE CITY COUNCIL.

For $80,000	Bonds of	April 1,	1885,	$6,500.00
25,000	"	"	1886,	2,300.00
30,000	"	"	"	1,200.00
30,000	"	Oct. 1,	"	1,200.00
15,000	"	April 1,	1887,	600.00
35,000	"	"	"	2,800.00
35,000	"	"	1888,	1,400.00
15,000	"	"	"	1,200.00
43,000	"	"	1889,	1,720.00
62,000	"	"	"	4,960.00
				$23,880.00

From water rates:		
$20,000 Water Bonds April 1, 1888,	$600	$24,480.00
Interest on investment,		3,076.98
		$80,454.75

INVESTMENTS FOR THE YEAR.

Amount on deposit at the Citizens' National Bank, interest credited monthly,	$77,377.77
Interest to January 1, 1890,	3,076.98
Total amount of trust funds,	$80,454.75

AMOUNT OF SINKING FUNDS IN EACH CLASS.

Sinking Funds, No. 1,	$36,444.22
" " 2,	10,137.69
" " 3,	5,290.13
" " 4,	3,892.08
" " 5,	1,946.06
" " 6,	9,080.47
" " 7,	2,537.79
" " 8,	2,960.75
" " 9,	1,265.44
" " 10,	1,772.22
" " 11,	5,127.90
	$80,454.75

Respectfully submitted.

JAMES H. HATHAWAY,

Treasurer.

REPORT

OF THE

COMMISSIONERS OF SINKING FUNDS.

NEW BEDFORD, January 20th, 1890.

At a meeting of the Commissioners of Sinking Funds of the City of New Bedford, held this day, it was

Voted, To adopt the foregoing statement of the Treasurer, as the Report of the Commissioners of the Sinking Funds of the City of New Bedford, required by the Statutes of Massachusetts to be made annually to the City Council.

ISAAC W. BENJAMIN,
WM. A. CHURCH,
WM. H. MATHEWS,
} Commissioners.

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1890 — CITY DOCUMENT No. 9.

ANNUAL REPORT

OF THE

CHIEF OF POLICE,

OF THE

CITY OF NEW BEDFORD,

TO THE

City Council,

FOR THE

Year Ending December 31, 1889.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS.
1890.

In Board of Aldermen,
January 16, 1890.

Received, ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
1 mo. 16, 1890.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

NEW BEDFORD, Dec. 31st, 1889.

To His Honor the Mayor and Gentlemen of the City Council:

I have the honor to herewith submit my first annual report, showing the condition of the department and a synopsis of the work performed.

The force as now organized consists of one chief, two captains, six lieutenants, two inspectors, forty-three patrolmen, and four day housekeepers, who are also regular officers, but, on account of age and long and faithful service, have been permanently assigned to the several station houses; a clerk of police has also been added to the department.

Fifteen hundred and thirty-three (1533) arrests have been made during the year, classified as follows (on warrants 279):

Assault and battery,	129	Concealing personal property without title,	1
Assault, felonious,	5	Contempt of court,	3
Assault, indecent,	3	Disturbing the peace,	93
Assault on an officer,	5	Disturbing religious meeting,	2
Assault with dangerous weapon,	1	Drunkenness,	995
Abandoning child,	1	Embezzlement,	7
Assuming to be an officer,	1	Escaped convict,	1
Attempt at larceny,	2	Evading street car fare,	1
Adultery,	2	False pretence,	1
Bastardy,	8	Fornication,	2
Breaking and entering,	1	Forgery,	2
Breaking and entering and larceny,	30	Gambling,	4
Cruelty to dumb animals,	3	Idle and disorderly,	11
Carrying dangerous weapon,	1	Illegal sale of liquors,	1

Illegal sale of oleomargarine,	4	Obtaining goods under false pretences,	3
Indecent exposure,	1	Obstructing an officer,	3
Insane,	22	Receiving stolen goods,	1
Keeping unlicensed billiard table,	1	Refusing to assist an officer,	1
Keeping liquor nuisance,	19	Robbery,	2
Keeping liquor with intent to sell,	4	Selling leased property,	2
Keeping noisy and disorderly house,	11	Stubborn children,	12
Keeping unlicensed dogs,	6	Threatening bodily harm,	3
Larceny,	52	Tramps,	4
Larceny, felonious,	9	Trespass,	4
Larceny in building,	6	Unlawfully using team,	1
Malicious injury to real estate,	2	Vagabonds,	1
Malicious mischief,	6	Vagrants,	11
Neglected children,	3	Violation of city ordinances,	4
Non-support,	13	Violation of Lord's day,	3
		Violation of fishery laws,	3

NATIVITY OF PRISONERS.

United States,	603	Poland,	2
British Provinces,	9	France,	2
Canada,	131	Germany,	14
Ireland,	497	Italy,	2
England,	175	Portugal,	55
Sweden,	5	Wales,	2
Scotland,	27	West Indies,	3
Norway,	4	China,	1
Switzerland,	1		

Of the persons arrested, 1329 were males, 204 were females, 359 were non-residents, and 151 were minors; 785 were committed to prisons, 22 to insane asylums, 45 appealed from sentence, 31 were found not guilty and discharged, 12 were nolle prossed, 6 were delivered to out-of-town officers, 616 paid fine and costs and there are 16 cases now pending.

MISCELLANEOUS BUSINESS.

Amount of property reported stolen,	$1,541.55	Buildings found open and secured,	63
Amount of property reported recovered,	$1,958.75	Cases investigated,	1363
		Dangerous buildings,	2

Dead bodies found,	5	Intoxicated persons helped home,	9
Defective drains and vaults,	1	Lost children returned.	64
Defective lamps,	2	Sick and injured persons assisted,	9
Defective streets and sidewalks,	66	Stray teams put up.	9
Dangerous dogs,	17	Street obstructions removed,	1
Defective water pipes,	1	Street obstructions reported,	2
Disturbances suppressed,	137	Water running to waste,	27
Dogs killed,	61	Horses found cast,	4
Dog notices served,	37	Horses killed,	1
Fire alarms given,	7	Rescued from drowning,	1
Fires extinguished without alarm	7		

LODGERS.

Twelve hundred and thirty-three (1233) persons have been furnished with lodgings during the year, of whom 1230 were males, and 3 were females; 632 were Americans, 601 were foreigners, 43 were minors and 1233 were non-residents.

NATIVITY OF LODGERS.

United States,	632	Germany,	6
British Provinces,	5	Sweden,	11
Canada,	27	Scotland,	28
Ireland,	331	Norway,	1
England,	185	Poland,	1
France,	3	Wales,	2
Portugal,	1		

STATION HOUSES.

The several station houses are in good condition and will require but slight repairs the coming year. The heating apparatus at the Weld Street Station is, however, defective, requiring more heating surface. As it is now arranged, it is insufficient to heat the officers' room comfortably in the coldest weather. I would recommend that another radiator be placed at the west side of the large room.

The Woman's Lockup has been neatly cared for by the matron, Mrs. Bullard. A hot-water heater has been

placed therein and seems thus far to have proved a perfect success.

The need of a station house in the southwest part of the city is manifest.

The Central Station House has been repainted, thanks to the Committee on Public Property, and now presents an attractive appearance, which is in strong contrast to that of the past four or five years.

His Honor the Mayor and Committee on Police deemed it to be for the best interest of the city to place permanent men in the several outside stations, during the day time, as housekeepers and call-men. In accordance with the above, four men who had been long on the force were retired therein, and the year's experience has proved the policy to be a sound one. All four have attended to their duties faithfully, and the several houses are so kept as to cleanliness, etc., that they are ready for inspection at any time.

THE FORCE.

Patrolman Lemuel D. Adams, a faithful officer, has been promoted to lieutenant of the day force, to fill a vacancy in that grade.

On assuming charge of this department, I recommended the creation of the grade of Inspector of Police, which recommendation was at once adopted, and patrolmen Franklin L. Hathaway and John C. Parker were appointed to the positions, with what success, I leave you, gentlemen, and the public to judge. The office of Clerk of Police becoming vacant by promotion of the former incumbent, it was thought advisable to appoint a civilian to do the clerical work alone, thereby saving the service of one officer. Henry N. West, Esq., was appointed to the position, and no better choice could have been made, as

it seems a pleasure to him to assist and accommodate at all times.

It has been my policy to lessen, as far as possible, the petty jealousies which are apt to arise in organizations of this kind, and I am pleased to report that, so far as known, there are few, if any such, now existing among our officers; but most of the men are working for the benefit of the force as a whole and not for mere individual reputation.

A policeman is surrounded by many temptations which call for much moral strength and force of will to resist,— hence the necessity of strictly and impartially enforcing the rules and regulations laid down for the government of the force, and oftentimes it is necessary to discipline an officer for offences which citizens may deem trivial or of little importance, but which are of vital concern to the good of the department, upon the principle that "Little things are the hinges on which great things swing."

The discipline of the force has been good, and the members have generally shown a disposition to cheerfully conform to the rules and regulations of the department. Six patrolmen only have been reported to the Committee on Police for their action, two for disobedience of orders, two for unofficer-like conduct, and two for drunkenness; of these, two were reprimanded, two were acquitted, one was suspended without pay for the term of thirty days, and one was allowed to resign.

MORALE OF THE CITY.

The increase in the number of arrests is no more than is to be expected with the increase in population. Wherever so many people are found of such varied nationalities, reared under such varied laws and social customs as characterizes ours, many minor offences against the laws must

be looked for. It will be noticed from the classification in this report, that there has been but few cases of so-called heavy crime in our city during the past year.

Statistics of drunkenness are not necessarily reliable. The number of arrests for that offence may vary from year to year to a considerable degree. Given a certain number of people, consisting of different nationalities, and there will be just about so much drunkenness. Officers differ in their policies respecting the arrests of drunks. One will be inclined to take in every one who shows the influence of an intoxicant, while another will be far more liberal and take in only those who are actually nuisances or who are actually down. Careful observation only can give any one an accurate idea of the real amount of drunkenness, and my experience and observation as a police officer for several years, convinces me that drunkenness exists to just about such an extent, year in and year out. My policy has been not merely to make a good showing on the books, but to do what should have been done without regard to mere statistics. The result of the year's work compares well with that of past years.

IN GENERAL.

The growth of our city is evidently permanent and the increase in mills and manufactories of various kinds bring in a great number of operatives who must be housed. This increases the amount of territory covered by buildings. The city is stretching further and further away from the center to the north and south (already it is thickly settled from the Oneko Mills to the Howland Mills, some three miles distant), making it necessary to extend police supervision, which extension increases the size of the beats and renders the lines more and more attenuated. This difficulty must be met, and in one of two ways, viz.: By enlarging the force numerically, or

by adopting some of the new and improved methods of doing police work by increasing our efficiency without materially increasing the force. The former not only calls for more men, but will, also, require more station houses in the very near future, all of which would increase the cost of supporting the department to considerable extent and we would still be running in the old ruts. This method is being rapidly discarded by several of our sister cities in the Commonwealth. New Bedford should be progressive in this department as well as in others. A police signal and patrol wagon system should be adopted, which, although quite expensive at the start, is cheaper in the end, doing away with men and station houses and accomplishing the desired end in a quicker and more desirable manner than by any other system. By it the members when on duty can be brought quickly within call of the central office and thus better supervision can be had over them; much exhaustive work in handling refractory or helpless prisoners can be saved; men can be concentrated at any given point in the quickest manner possible; citizens requiring the aid of an officer can call one far more expeditiously than now: aid in the carrying of sick and injured persons can be rendered in a more humane manner than at present; the public can be saved from witnessing many sights which arouse the sensibilities of the better classes and the derision of the worse; in short, in numerous ways the advantages of such a system over the present are so apparent, it seems to me unnecessary to do anything more than thus hint at a few of them.

In conclusion, I desire to tender my thanks to His Honor the Mayor and the Committee on Police, also to His Honor the Judge and the Clerk of the Third District Court and to the members of the Police Department.

Very respectfully your obedient servant.

DANIEL A. BUTLER,
Chief of Police.

ANNUAL REPORT

OF

PROBATION OFFICER,

TO

DECEMBER 31, 1889.

In Board of Aldermen,
February 13, 1890.

Received, ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
2 mo. 13, 1890.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

To His Honor the Mayor and Board of Aldermen:

GENTLEMEN. — I have the honor to report some of my work from March 1 to December 31, 1889.

I have made record of fifty cases that I have *specially investigated*. But there are many cases where I have helped by a word of advice at the Third District Court, of which I have made no record. Of the cases recorded, 26 were in the House of Correction, 24 before the court.

There have been pardoned on my recommendation, 17; pardoned without my recommendation, 3. Of those pardoned on my suggestion, most of them have done reasonably well.

Of the 50 cases recorded there were

Under 20 years of age,	8
Between 20 and 30,	15
" 30 and 40,	10
" 40 and 50,	8
" 50 and 60,	4
Over 60,	3
Unknown,	2
	50

Born in United States,	23
" Ireland,	14
" England,	8
" Canada,	4
Nativity unknown,	1
	50

Quite a number of those born in the United States are of foreign parentage. There were males, 45; females, 5. Intemperate, 44; temperate, 6. Of the 6 who were temperate, 5 were boys 17 or 18 years old.

I have made it a point to attend the court every morning when convenient, that I might if possible prevent young men and women from taking the first step in prison life. This has been done by putting them on probation and continuing their cases until they were able to pay a small fine. Of this class there have been eleven, and all have proved faithful to their promise so far as I can learn. I deem this the most important part of the work of the office, as when once a young man or woman has been imprisoned, even for a short sentence, they have the disgrace indelibly stamped upon them. And often when they find themselves almost within prison walls and some one comes to their rescue, and couples their aid with wholesome advice, the lesson proves beneficial.

I have endeavored not to antagonize the police in their work of enforcing the law, and have received encouraging help from the members of the force.

While I have given a brief outline of the work done, there is much which, in the nature of the work, is not matter of record.

Respectfully submitted.

I. H. COE,

Probation Officer.

1890 — CITY DOCUMENT No. 10.

First Annual Report

OF THE

BOARD OF PUBLIC WORKS

OF THE

City of New Bedford,

TO THE

City Council,

TOGETHER WITH THE

Superintendent's Report to the Board,

FOR THE YEAR 1889.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS.
1890.

REPORT.

City of New Bedford,
Office Board of Public Works,
Dec. 31, 1889.

To the City Council of the City of New Bedford:

Gentlemen,—The Board of Public Works herewith submit a report for the year ending Dec. 31st, 1889.

This Board was created under an act of the Legislature passed March 28th, 1889. As it explains the constitution of the Board and defines its powers and duties, it is herewith introduced.

AN ACT TO ESTABLISH A BOARD OF PUBLIC WORKS FOR THE CITY OF NEW BEDFORD.

Be it enacted, etc., as follows:

Sect. 1. A Board of Public Works is hereby established for the city of New Bedford, as follows, viz.: In the month of April, in the year eighteen hundred and eighty-nine, or as soon thereafter as this act shall take effect, the mayor of said city shall appoint, subject to confirmation by the Board of Aldermen of said city, three persons to be a Board of Public Works, to hold office respectively one, two and three years from the first day of May, in the year eighteen hundred and eighty-nine, and until their successors are appointed, confirmed and qualified; and thereafter, in the month of April in each year, the mayor shall appoint, subject to confirmation as aforesaid, one member of said board to serve for a term of three years from the first day of

May in the year in which he shall be appointed, and until his successor is appointed, confirmed and qualified; but the mayor, with the consent of the Board of Aldermen, may at any time remove any of said board. Whenever any vacancy shall occur in said board by death, resignation or otherwise, said vacancy shall be filled by appointment and confirmation, in the manner aforesaid, of another person, who shall hold office for the residue of the unexpired term. Said board shall serve without compensation. The members thereof shall be sworn to the faithful discharge of their duties, and a record thereof be made upon their journal. Said oath may be administered by the city clerk or any justice of the peace.

SECT. 2. Annually, on the first Monday of May, said board shall organize by the choice of a chairman from their own number, and by the appointment of such other officers, not members thereof, as they may determine. The city clerk shall be clerk of said board and serve without extra compensation, and as clerk of said board shall perform all the duties now required of city clerks in relation to the laying out, locating anew, alteration or discontinuance of streets, or of alterating or establishing the grade thereof, or of laying, making and maintaining main drains, common sewers and sidewalks, or any other matters placed by this act under the control of said board, and shall keep a record of the doings of said board.

SECT. 3. All the duties, powers and authority in relation to the laying out, locating anew, alteration or discontinuance of streets or ways, or of altering or establishing the grade thereof; of laying, making and maintaining main drains, common sewers and sidewalks and keeping the streets and ways in repair, now by law vested in the City Council of the city of New Bedford or either branch thereof, or the mayor and Aldermen as surveyors of highways, or otherwise, are hereby vested in and shall be exclusively exercised by said Board of Public Works; and all the rights, powers and duties of said City Council of the city of New Bedford or either branch thereof, as public officers or otherwise, in relation to the streets, ways, sewers, drains, public parks, commons, and public squares in said city of New Bedford, are hereby transferred to and exclusively vested in said board.

SECT. 4. Said board, in relation to the powers, duties and authority by this act conferred upon it, shall have the same authority heretofore vesting in the mayor and Aldermen of said city to make contracts in behalf of and binding upon the city; to appoint subject to the provisions of chapter three hundred and twenty of the acts of the year eighteen hundred and eighty-four and any acts in amendment thereof, its employes, define their duties and fix their compensation; and, in general, to do all things necessary to a proper performance of their duties.

SECT. 5. Said board shall have authority to procure suitable offices

for its own use; and all plans of streets, main drains, common sewers, parks, squares, and public places, electric, telephone, telegraph poles, and other structures in the streets heretofore required by law to be filed, and now on file in the city clerk's office, shall be placed on file in the office of said board, and all such plans hereafter made shall be filed in the office of said board.

SECT. 6. In case said city shall accept the provisions of chapter one hundred and fifty-four of the acts of the year eighteen hundred and eighty-two and acts in amendment thereof, said board shall constitute the commissioners therein provided for.

SECT. 7. This act shall take effect upon its passage. [Approved March 28, 1889.]

The first members of this Board were nominated and confirmed April 11th, 1889. They were: Morgan Rotch for three years, Edmund Wood for two years, and David L. Parker for one year. On the second of May they met and organized for the year by the election of Morgan Rotch as chairman.

Daniel B. Leonard, City Clerk, became by the provision of the act Clerk of the Board. The office of the Superintendent of Public Works was created, and Albert B. Drake was elected to fill the position.

It will be seen that, by the provisions of this act, the province of the Board of Public Works includes not only the duties of the former committee on streets and the Superintendent of Streets, but also the powers of the Aldermen as surveyors of highways and those of the City Council in relation to sewers, public parks, and the New Bedford and Fairhaven bridge.

For some time the need of a commission or board, whose tenure of office would be more or less permanent, has been recognized by those familiar with public affairs. Only in this way could a systematic policy in relation to the laying out and acceptance of streets and the construction of sewers be followed from year to year. With the city government constantly changing, it has been difficult to follow any definite plan in our system of sewers. With

the growth of the city has come the necessity of considering, at the building of every sewer, the question of possible future demands to be made upon it. In the past the request for the acceptance of streets has been but little in advance of the growth of the city, and many times much expense has been incurred in the removing of obstructions lately placed in the line of them. With a continuous board it is possible to project streets more in anticipation of the city's growth, and it was in accordance with this idea that the board was suggested. These ideas culminated in a request to the Legislature for the passage of a bill by which this board was created.

In this first year of service many other advantages have appeared over the former methods of conducting the affairs of the street department, and many changes have suggested themselves, some of which have been adopted and others are still under consideration. Many of these changes, which we believe will prove economical and for the city's interest, would scarcely have been undertaken by officials elected for one year only, as they could hardly be instituted and well under way before a new set of officials might come into power.

For two or three years past the number of poles placed in the city has been rapidly increasing, and requests to locate them have been granted without any systematic record thereof. With the aid of the City Solicitor, printed forms of application were prepared, by which the requests for the location of poles were made. This application contained a plan of the locations desired and the conditions to be fulfilled. A complete and systematic plan of the locations granted has been kept in the office of the board.

Early in the year it was thought that the amount of blacksmithing done for this department was so large that it would be cheaper and more convenient to establish a

shop at the city yard. Accordingly, in July the one-story brick building in the southeast corner of the yard was arranged for this purpose. This has been found in practice a great success. Work is much better in quality; time is saved by the teamers and horses; innumerable small jobs formerly aggregating a considerable amount are here done at small expense, and we believe that the work is done at much less cost than formerly. For further particulars on this subject we refer you to the report of the Superintendent.

The Board has adopted the policy of replacing a certain amount of cobble stone pavement with block pavement each year. Although the first cost of block pavement is large, being about three times as much as that of cobble stone, yet we believe it to be economical in the end, and it has certainly recommended itself by its durability, smoothness, and the facility with which it can be cleaned.

One subject which is increasing rapidly in perplexity is to provide curb stones and sidewalks where they are undeniably needed. For many years our city scarcely grew at all, and with a much larger proportionate appropriation for streets than is now made, considerable sidewalk, etc., was laid each year until our city stood far beyond the average in this respect. But of late years, with the rapid growth, new streets have been radiating from the old center, and the demand for this expenditure has been more than quadrupled.

Other cities have been earlier met with this same problem, and with very few exceptions in this Commonwealth have adopted the system of taxing the whole or a part of said improvements on the abutting premises.

It may seem to some that any such change adopted in our city would be unfair, but unless some such method is adopted, a very much larger appropriation will be needed to keep up with the rapidly increasing demand. Before

this can be done, it will be necessary that the City Council should accept an act passed by the Legislature, and if, after further examination, the Board are convinced that this will be the best method of solving this difficult problem, the facts will probably be put fully into your possession for you to consider whether you will vote to accept this act.

For years it seems to have been the custom of a large number of property owners to empty roof water through pipes and spouts directly upon the sidewalk and street in front of their premises, causing a nuisance to all pedestrians and forming ice in cold weather. Many accidents have been caused thereby, and at any time the city is liable for damages. There is little excuse for this, as, at small expense, such water conductors could be run into the gutters under the sidewalk, or, better, connected directly with the sewers. This would be a benefit to the drains, causing a flushing of the pipes with each rain.

Section 30, chapter 28, of the City Ordinances provides that "No person shall suffer his or her building to shed water on any sidewalk or street in the city to the injury or inconvenience of passengers." Section 39, chapter 28, provides that "Any person who shall offend any of the provisions of this chapter, in all cases where the penalty is not named in connection with the offence set forth, shall pay for each and every offence a sum not less than one dollar ($1) nor more than twenty dollars ($20), and a like penalty for every day such offence shall be continued or repeated. Before another Winter, offenders against this ordinance will probably be called upon to remedy such nuisances.

Considerable has been done the past season in the matter of street cleaning. The expense is the only objection to having this systematically and thoroughly done. The two-horse sweeper has been used periodically, and during

the Summer months nearly every night. The Board appreciates the importance of tidy streets, and proposes to do as much as possible in this direction the coming year without slighting other interests. Attention is called in this connection to the practice of throwing paper, fruit refuse and other rubbish into the streets. It is discouraging to notice dirt of this kind in a street that has been cleaned a few hours before. We appeal to the citizens to individually cooperate with this department by providing other outlet than the street gutters for their rubbish and waste papers.

The practice of distributing advertising hand bills on our principal thoroughfares which are frequently thrown by the receiver into the street also causes a nuisance and is now being forbidden in many cities.

SEWERS.

All the sewers that have been laid during the past year have been in accordance with a general plan, looking to the future needs of the city. The size of sewers has not been determined solely by the present need of drains about to enter them, but by a scientific calculation of the area of the water shed and an estimate of the duty they will be ultimately called upon to perform.

The practice of digging up the streets of the city by abutters to connect drains with the sewers is pernicious, and the Board believe that a system should be adopted similar to that in the water department. The city should continue all drains from the abutters' line across the street to the sewer. In this way a record will be kept of the location of the drains and a proper depth and grade be maintained in all cases.

BRIDGE.

During the year the New Bedford and Fairhaven bridge was found to be sadly in need of repair, and the draw and its eastern approach were thoroughly overhauled and replanked. During the coming year quite a heavy further outlay will be required. Besides the woodwork, the paving is badly worn, and the cobble stones should be replaced with block pavement.

During the year many consultations have been held with owners of land on the outskirts of the city, and streets have been projected through the property satisfactory to this Board and to the owners.

By this means a large number of streets are insured to the city in the near future with no expense for land damage or for clearing the line of obstruction.

This policy will be continued the coming year, and by it the public will gain the benefit of wider and more continuous streets.

The report of the Superintendent to this Board is very full and supplies the details of the work done the past year, and is made a part of our report.

Respectfully submitted.

MORGAN ROTCH,
EDMUND WOOD,
DAVID L. PARKER.

Report of the Superintendent.

City of New Bedford,
Office of the Superintendent,
January 1, 1890.

To the Board of Public Works:

Gentlemen,— I respectfully submit the following report of work done during the past year, and of suggestions for the coming year:

Highways and Streets.

The work of this department for the year 1889 is quite fully shown in the tables which have been prepared and which are appended to this report. I desire to more particularly mention this work under the following heads:

Macadam.— All macadam laid during the year has been of the best character. The longest stretch, that on Pleasant street from the Water Works Reservoir to the Fall River R. R., has been most thoroughly done, with paved gutters the entire length. The full benefit of this work will be more thoroughly appreciated when Cottage street is opened this year through to Durfee street, making a continuous thoroughfare from Dartmouth street to the Plainville road.

The section on Pleasant street from Pope to Austin street was very much needed. The intersection of this part of Pleasant street with the cross streets should be paved soon. In the coming year many old macadam streets will have to be repaired.

Rockdale avenue from Maxfield to Durfee street should be macadamed.

Just before the creation of this board, a new engine and boiler were purchased for the crusher at the city yard. The method of handling stone at this crusher is primitive and expensive. This can and should be remedied so as to save expense and largely increase the output.

I would suggest that hereafter in all new macadam work the gutters be laid or relaid, even if the curbing is not disturbed. I would also call your attention to the method employed by individuals in digging up macadamed streets. The work is seldom put back in good shape, and it causes quite a large item of expense to the city. I will refer you to a suggestion under the head of sewers, that if adopted would largely remedy this trouble.

Graveled Streets — The past year quite a large number of streets were graveled. As the quality of our gravel is mostly very poor for surfacing streets, I would recommend that little be done in this line beyond making the streets safe and passable till such time as macadam or paving can be laid.

Sidewalks. — The sidewalks of the city taken as a whole are not in as good condition comparatively as the other parts of the streets. The large amount of money required to open new streets on the outskirts has caused this work to suffer somewhat.

While the older sidewalks are mostly laid with flagging, the greater part have not been maintained, and some are in a wretched condition on account of being laid with pieces cut from large and broken flag stones. A double

width of the small stones, making only 4 feet in width, makes a very poor sidewalk after being a few years in place.

As fast as can be done with economy, these walks should be taken up and replaced either by new flags or concrete. On streets which have a large amount of travel, flag sidewalks are the best, and should be laid with large flagging only. Concrete sidewalks are cheaper, and if properly laid can be maintained at small expense. Those laid the past few years have been cheaply done, the lack of a good foundation soon showing in the surface of the walks.

I would suggest for your consideration that the department do this work. It would not probably result in a saving of first cost, because a much more substantial foundation would be put in, using broken stone, but the economy would soon appear in its much greater durability and in the facility with which it could, after several years, be repaired and resurfaced.

A large number of cinderwalks were laid during the year. These make dry walking and a long distance can be put down at small expense; but the life of a cinderwalk is quiet short.

Paving.— During the year 68,000 granite blocks were purchased; 50,000 were used on Union street between Fourth and Pleasant streets, at Sixth street, and between Eighth and County streets, making a continuous surface of block paving from the west crosswalk at Fourth street to the east crosswalk at County street. The Union Street Railway Company should in this section pave with blocks between the rails.

Cobble paving has been placed on several streets by the Street Railway Co. This work should be continued as far as possible in 1890. I would also call your attention to the condition of the paving between the rails of the Union Street Railway Company. A large amount of repairs

should be done. I would recommend that in the centre of the city and on all main thoroughfares as the cobble paving gives out, blocks be laid.

Crosswalks.— A number of crosswalks have been laid of stone and concrete. The latter, wherever traffic is light, makes a dry walk at small expense and is especially easy for vehicles.

Bank Walls.— A large quantity of stone has been gathered during the year on the south side of the Cove Road from County to Crapo streets. These should be put into a sea wall to hold the road in place. Enough money has been expended within a few years on this road from County to Orchard street to have built more than one good wall and road. It has been washed out so as to be impassable several times, and is constantly washing away with every southerly wind. This makes the road narrow, and, at times, dangerous to travel, and an expense to the city at all times. The wall once built means that a permanent road can be maintained at small cost. The expense on this road has been as follows since 1882:

1883,	$16.30
1884,	375.90
1885,	655.83
1886,	277.98
1887,	34.15
1888,	1,226.57
1889,	111.50

An ordinary gravel road once built of such good material as has been used here ought to last for ten years with very little repair under the light traffic previous to 1888.

This road will require quite an outlay in 1890, as it is now much traveled, and fast reaching the dignity of a main thoroughfare to and from the city.

A bank wall should be built the coming year on Coggeshall street from Rock street to the bridge.

Street Cleaning.— This work has been spasmodically done in the past. The large expense has probably been the cause This expense would not be so very great if it were once systematically arranged, and if performed regularly it will pay the city as well as any work this department can do. A clean street has quite an influence on property, business, pleasure, and the comfort of every person using, seeing, or owning property on it.

The area of paved streets in the city furnishes a sufficient field for operation to keep the sweeper moving to good advantage and with good results.

Equipment.— January 1st, 1889, the department had 24 horses on hand. One died and three old worn out horses were sold. Eight horses were bought during the year. On hand December 31st, 1889, 28. This increase was necessary in order to keep all the carts, express wagons, and gears at work.

There should be an increase in the number of animals equal to the capacity of the stable, and a corresponding increase in the number of carts.

In July the department established a blacksmith shop at the city stable with one blacksmith and helper. Here has been done about all the smithing of the street and sewer departments, except horse shoeing, since work began about August 1. The accounts of this branch have been carefully kept, and from them I have drawn a comparative statement of cost.

The blacksmith bills, other than shoeing, paid each month since May 1st, 1889, by the street department were as follows:

May,	$37.73
June,	211.84
July,	364.20
August, with our shop under way,	5.00
September,	10.10

October,	14.50	(Bill contracted
November,	0.00	in April.)
December,	.35	

The cost of establishing and maintaining the blacksmith shop is as follows:

From July 14th, 1889, to January 1st, 1890, cost of fixtures, labor, tools, stock, supplies, etc.,		$1,297.65
Amount of work done for the several sewers charged at the same rate as previously paid outside parties,	$659.11	
Amount received from New Bedford Water Works,	11.37	
Value of stock and fixtures on hand January 1st, 1890,	572.94	1,243.42
Actual cost to the street department of its blacksmithing during that period,		$54.23

The cost of this work, if charged at the prices paid last year for the same, would be $477.84. Deducting $54.23 gives $423.61 as the apparent profit of this investment during its first five months. For the actual profit, to this must be added the much greater convenience, the saving of the wages of teamers and tail-men, patiently waiting in sundry blacksmith shops for the city's turn to have some trivial repair made to a cart, and also I firmly believe the quality of the work.

A one-story brick building should be built early the coming year at the city yard for use as a machine, repair, and paint shop, and extension of the present tool house. This can well be located between the present roller shop and tool house, connecting the two buildings. This building ought to be 32 feet in width and 88 feet 8 inches long, costing about $4000.

The present tool house is too small for the tools of the street and sewer departments. More shed room should also be provided as a number of the carts or gears have to stand exposed to the weather. A shed should be erected on the north side of the west lot 178 feet long and the depth of the present sheds.

Recommendations and Suggestions.— Of all the expenditures the city is called on to provide for during a year, there is no account which so directly meets the use of the whole population as highways and streets. The benefit to be derived from a careful and well directed expenditure of the money affects the whole community.

Good streets encourage private enterprise and make a thrifty and well ordered city. Owing to the improvements of highways and streets being considerably behind the requirements of a growing city, it would be useless to expect to put every street in good condition at once.

I would suggest that the streets be made and kept safely passable, and the balance of the money expended in thorough and permanent work, looking toward the future benefit of the city.

Thorough work means a large reduction in the cost of maintenance and repairs. The work to be done on streets should be carefully studied and systematic methods adopted for extending all thorough and permanent work in order to get the best results. The study of the welfare and good of the general public is the only method of arriving at the best results.

The growth of the city, calling for so many new streets, seems to suggest the practicability of assessing a share of the cost of new streets on the abutters, and in this way make improvements of future value instead of temporary value, as at present. The benefit to be derived by the abutters from such improvements will far exceed the sum assessed on the property.

Defining the Lines of Contemplated Streets.— The practice of the Board the past year of defining the lines of streets, whenever asked to do so, by owners of real estate, is a step in the right direction. The next step would be to define and establish the lines of main thoroughfares, ahead of all building and the division of estates, and this can only be arrived at by a study of the possible future needs of the city.

The lines of the Cove road from Crapo street to the Dartmouth line should be defined and a grade established. This should be done so that future work thereon will be within the correct location of the road.

New Streets Accepted.— The following statement will show the rapid addition to the length of accepted streets, also the streets that will require quite a large outlay.

In 1886, 11,853 feet or 2.245 miles of streets were accepted. Of this, Coggeshall street, 50 feet wide, from Acushnet avenue to the new bridge will have to be built in 1890, a length of 2145 feet.

In 1887, 5707 feet or 1.08 miles of streets were accepted. Of this, Peckham street, from County to Mt. Pleasant, and Church street, from Coffin avenue to the Nash road, 50 feet wide, a length of 3162 feet, call for attention.

In 1888, 24,530 feet or 4.646 miles of streets were accepted. Of this, Atlantic street, from Union to Arnold, James street, from Court to Arnold, Liberty street, from Kempton to Court, Elm street, from Florence to Reed, Rotch avenue, from Court to Hawthorn, and Arnold street, from Tremont to west of Sisson street, need attention soon.

Rock, Orchard, Birch, and Hawthorn streets, a length of 12,606 feet or 2.39 miles, should be opened up. 1000 feet of Hawthorn street, previously accepted, will need building in addition to the above.

In 1889, 14,791 feet or 2.801 miles of streets were accepted. Of this, Second street, from Blackmer to Division, Rock street, from Coggeshall to Sawyer, and Oak street, from Allen to Grape, should be built in 1890. Length, 2116 feet.

Establishing Street Grades.—A subject that should be taken in hand soon is establishing a grade for all streets, and making alterations from the present established grades wherever necessary. In this way buildings would be built to an established grade, and in the future save expense to property owners and the city.

There are several sections of the city where the surface of the streets have been built at such slight elevation above high tide in the river that no suitable drainage can be had.

No street grade should be established under any circumstances at a lower elevation than four (4) feet above average high tide. A low elevation of street surface is always combined with shallow sewers and poor drainage. Bad drainage means sickness and a high death rate.

I do not mean, in recommending the establishing of new and improved grades, that streets must be graded at once; but that as new buildings are erected in streets where the changes are to be made, they shall be built to the new grade, and the street temporarily adjusted to the building so as to be safe and convenient for the public. One building so built to grade will compel the balance to follow.

There is no time like the present to effect this change, as the majority of the buildings in the districts needing these improvements are of a temporary character, being built of wood, and must surely give way soon to more costly and permanent structures. The expense to the city will be light, and to the property owner will be next to nothing; at the same time both city and owner reap the benefit that follows.

Poles for the Support of Wires.— The granting of locations of poles for the support of wires is another matter requiring your attention, looking toward the future action that will soon be necessary. One line of poles in a street is bad enough, but more than two lines should not be allowed on any thoroughfare in the city. If two lines are granted, they should be on opposite sides of the street. All light and power wires should be on one line of poles.

Hitching Posts.— The granting of permits for hitching posts, barbers' poles, and other like obstructions to the sidewalks, should not be allowed on the principal streets, and should be limited on all streets. The present form of permits reserves to the Board the right to remove such obstructions at any time, and the party erecting the posts assumes all responsibility.

Stepping Stones.— Stepping stones should not be allowed, as they are a dangerous obstruction, and I would suggest a large reduction of those at present in use.

Door Steps and Open Cellarways.— Steps of buildings and open cellarways that project beyond the lines of the streets, and have been tolerated for a number of years, should be removed. If the abutters realized their responsibility in this matter, our sidewalks would be much improved. See section 10, chapter 28, of the City Ordinances.

Sewers.

The details of the work of the year are fully set forth in the accompanying tables.

Length of Sewers Laid.— During the year 2.285 miles of sewers have been laid, varying in diameter from 10 inches to 4 feet.

Connections of Drains with Sewers.— In the work of the coming year I would suggest that all sewers be laid

with branches at every convenient distance for house connections. The present bad practice of cutting a hole in the sewer makes, under the most favorable circumstances, a very rough surface on the inside of the sewer. This is liable to form a lodging place for all substances floating in the pipe and causing quite an expense to keep clear.

Branches make a clean smooth connection with the sewer, and cost less than cutting into the pipe. With the control the department has of granting permits, it is easy to have the connections from premises made with the branch suitable for each house.

Sewer Department Should Lay All Drains in Streets.— I would also call your attention to the desirability of this department controlling the laying of all drains in the streets. The poor workmanship and material of some of the drains laid to sewers as well as an entire absence of a grade giving a constant rate of descent to every pipe, causes trouble and a constant tearing up of the streets for repairs, or to lower drains that should have been laid deep enough at first. In the street department report I have referred to the trouble incurred with the surface of the streets from this cause.

Catch Basins.— Catch basins have been placed where needed the past year, and at least 50 should be placed in 1890.

The lack of a sufficient number of catch basins causes repairs by washing the streets. Another item of expense to the city caused by the lack of basins is the filling of docks at the mouth of a number of the sewers. Although the increase of basins will have to be gradual, it would be well to increase faster than the new streets call for them.

The practice of taking a large territory into one catch basin that should be provided with two or three, renders useless a large share of the benefit otherwise derived from their use. Forcing such large quantities into one basin

carries all but the heaviest particles of street washings into the sewers and thence to the docks, where the still water allows nearly everything to settle to the bottom. A judicious and liberal supply of catch basins will retain this dirt and sand and largely prevent accumulations in the docks, and will be found by far the most economical way to handle the washings from the gutters and streets.

Need of Trunk Sewer West of Tripp Brook Valley.— The growth of the city is pushing building into the valley west of that drained by the Tripp Brook sewer, and extending from Cannonville to the Rural Cemetery.

A brick sewer already extends through Bonney, Rockland, Oak, and west in Grape street, and intended to drain the valley above mentioned. An urgent call will soon be made for sewers in the above mentioned valley, as the lack of such drainage is the drawback to building.

I would suggest that from $10,000 to $20,000 be expended the coming year and each year following in extending the sewer in Grape street to meet this demand rather than to wait a very few years and then spend $50,000 to $70,000 in one extension. It would largely increase the valuation of the above territory.

Extension of Sewers.— I would suggest a liberal policy in regard to extending sewers as demanded. There is nothing that causes building and increases the value of property more than good sewers. It makes it possible to make and maintain good streets at much less cost.

Sewers being under the surface seem to fulfil the old saying, "Out of sight, out of mind" to many, but they have a great and powerful influence on the health and prosperity of a community.

Shallow Sewers.— Under this heading I wish to call your attention to the mistakes that have been made in the past.

One of the important items that each succeeding administration boasted of was the record (?) made of the number of miles of sewers laid at less cost than ever before. This mistaken idea of saving in first cost has now to be met and remedied in such manner as a careful study of the subject will show to give the best results.

From looking over the records of the sewers in past years, their depth seems to have been fixed by the depth to which frost will penetrate. A large number are laid with the top of the pipe four feet below the surface of the street, and recorded as the standard depth the whole length of the sewer.

This laying of shallow sewers was not varied except where passing through a high point or ridge of land to reach some valley or depression beyond. In such cases, nine times out of ten, the depression or valley had to be filled up more or less in order to get drainage through the very drain paid for, and perhaps laid for the special drainage of such low tract.

The laying of shallow sewers, combined with an entire lack of attention to the relative proportion of the sewers to the area to be drained, or of the proportion of the feeders to the main sewer itself, has in many cases rendered some of the sewers of later date of little value. This policy of the most length for the least money will be very costly to the city and property owners in the end. Since 1885 the sewers have been laid at a much better depth as the records will show, although some of them were prevented from being laid at a sufficient depth by the necessity of connecting with sewers already laid.

The lowering of shallow sewers in the busy parts of the city to a depth sufficient to provide drainage for business buildings such as are being erected on the main streets, must be met in the near future. There are a number of streets on which improvements are slow of undertaking

from this fact only. In the centre of the city the sewers as a rule are above the bottom of the cellars necessitating a long drain down the street to some point of entering the sewer.

Distance being sometimes saved at the cost of a loss in the grade of the drain. This causes a constant tearing up of some one of the principal streets and future tearing up for repairs. Some parts of the city north and south cannot be provided with sewers of any depth on account of too little elevation above high tide in the river. This is referred to in suggesting the changes in street grades.

The new post office, if the floor is set level with the sidewalk, will have to run a drain down William street to Water, or north in Second to Elm street, and on Elm street a short distance, in order to get a proper depth. This is only one of many such examples.

During the year the following sewers were lowered to a proper depth: 875 feet of Durfee street sewer from Mt. Pleasant to Wilson street, 250 feet of Arnold street sewer from Ocean to Tremont street, and Blackmer street sewer 110 feet east of Front street. I would suggest the lowering of one to three sewers a year of those most needing it. This will not incur a very heavy expense in any one year, but the final result will be good.

Tripp Brook Valley.—The Tripp Brook sewer was laid so shallow as to make it necessary to raise the surface of the streets and adjoining lands over a very large area. This first saving in cost has been more than equalled each year by the cost to the city and property owners for raising the surface of streets and land, with the attendant disadvantage of shallow sewers in all streets adjoining. The call for sewers in this valley increases every year.

A few figures may not be amiss. The sewer begins at the corner of Newton and Hillman streets; at this point the surface of the ground is 6 1-2 feet above the bottom

of the sewer. The surface of Parker street, 2200 feet away, is 10 1-2 feet above the bottom of the sewer at the corner of Newton and Hillman streets. The surface of the swamp at Parker street is 8 feet above the bottom of the sewer at Newton and Hillman streets. The rate of grade for this sewer should not be less than .25 or 3 inches per hundred feet, equal to a rise of 5 1-2 feet in 2200 feet. This would give a depth of the bottom of the sewer at Parker street of 2 1-2 feet below the surface of the swamp, and 5 feet below the surface of Parker street. The depth of mud in the swamp is about 6 to 8 feet.

Sewers in adjacent streets would require a rising grade from the main sewer, and when they are laid as far as the edge of the swamp, will be on the surface. This means a filling in of the entire swamp several feet deep. The surface of the swamp between Hillman and Parker streets is 1700 feet by 1100 feet. Area about 6868 rods.

The cost of filling a rod of land one foot deep is not less than five dollars. Newton street from Kempton to Hillman, over the line of the present sewer, and in good ground, has an established grade 3 3-4 feet above the surface of the ground. This is necessary to give depth to the sewer. This street is at the outlet of the swamp. If necessary to fill 3 3-4 feet north of Kempton street, what will be necessary at Parker street?

A sewer constructed at the proper depth to drain this swamp would be a benefit to all the land south of Kempton street as far as it would be necessary to go for an outlet.

If this valley had been properly drained it would have been used for building purposes before the land on the west slope of the valley would have been called for. This would have shortened the length of new streets somewhat and made the growth of the city more compact.

The swamp above Kempton street, if well drained, will

soon be built over, but if not drained, will be unhealthy and a barrier to the growth of the city in this direction. This matter should be investigated thoroughly and some definite method adopted. Early attention should be given to this subject.

The growth of the city in pushing to the north has already settled enough territory north of Linden street and west of the Old Colony Railroad to fully equal the capacity of the sewer that at present drains it.

Sawyer Street Sewer.— The further settling and extension to the north should be taken care of at Sawyer street, as in going north a ridge of high land intervenes between the river and the valley west of the railroad. This should also receive early attention from the Board and a future system planned out to be followed, at the same time arranging for a side sewer in Rock street, from Sawyer street north to Davis street, to take and keep all sewage from being emptied into the lagoon north of Sawyer street.

The number of outlets into the river should be limited and when so emptying to be placed so that the tide will have some effect on the sewage. A sewer in Sawyer street was asked for last August.

New Bedford and Fairhaven Bridge.— During the year the draw and that part of the bridge between the draw and Fish Island was thoroughly rebuilt.

The bridge, from Fish Island to Pope's Island, was overhauled and made safe, but must be planked and new floor timbers put in this Summer. The cobble stone paving on this bridge cannot stand the heavy traffic to which it is subjected, and should be paved with blocks. As some of the paving must be replaced the coming year, I would suggest that blocks be laid.

This bridge is too narrow at present, and it would be well for the city to acquire the right of enough land to

make the bridge and ways across the islands not less than 75 feet wide. This should be done before permanent structures are erected. It would be well to plan for such widening and whenever new buildings are erected to have them set back from the present line a sufficient distance to give the required width.

Respectfully submitted.

A. B. DRAKE,
Superintendent.

REPORT OF DRAW TENDER.

The following is the report of the draw tender of the New Bedford and Fairhaven Bridge for the twelve months ending Dec. 31st, 1889, showing the number of vessels for which the draw has been opened.

MONTHS.	BOATS.	SCH'S.	SHIPS AND BARKS.	TUGS.	BARGES.	TOTAL.
January,	15	31		41	1	88
February,		11		33		44
March,	25	41	1	63	1	131
April,	80	50		43	6	179
May,	172	46	3	49	6	276
June,	198	38		49	14	299
July,	237	36		51	15	339
August,	230	62		75	18	385
September,	100	35	1	44	10	190
October,	159	57		65	9	290
November,	73	60		57	5	195
December,	25	51		69	6	151
	1314	518	5	639	91	2567

1888, number times opened, 2463.

TABLE No. 1.—Macadam Streets, New and Old. 1889.

Streets.	Between what Points.	Length. Feet.	Tons Stone.	Cost.	Remarks.
Allen,	Cottage and Ward,	410	21	$32.75	Repaired, 5 feet wide.
"	Square at Dartmouth,	50	24	35.49	Repaired, 16 feet wide.
Ashland,	Robeson and Austin,	500	188	361.60	Repaired, 18 feet wide.
Bedford,	Greene and Anthony,	665	517	614.21	New, 18 feet wide.
Court,	County and Cottage,	710	775	790.43	New, 18 feet wide.
County,	Court and Union,	240	242	327.51	New, 24 feet wide.
"	Kempton and Middle,	300	451	474.17	New, 24 feet wide.
Durfee,	Ashland and Mt. Pleasant,	250	203	237.90	Repaired, 26 feet wide.
Foster,	Kempton and High,	84	50	65.45	Repaired, 18 feet wide.
Grinnell,	Square at Acushnet avenue,	29	49	28.88	Repaired, 29 feet wide.
High,	Purchase and Pleasant,	84	4	10.48	Repaired, 3 feet wide.
Hawthorn,	Ash and Cottage,	375	22	13.94	Repaired, 3 feet wide.
Hillman,	Purchase and Pleasant,	215	75	119.00	Repaired, 17 feet wide.
"	Walden and County,	313	94	105.47	Repaired, 17 feet wide.
Mt. Pleasant,	Peckham street and F. R. R. R.,	3,330	4,374	5,138.93	New, 18 feet wide.
"	Durfee street north,	350	128	152.93	Repaired, 18 feet wide.
North,	Foster and County,	660	106	191.88	New, 17 feet wide.
Pleasant,	Pope and Linden,	1,550	1,752	1,972.66	New, 17 feet wide.
"	Willis and Pearl,	240	10	15.25	Repaired, 5 feet wide.
"	Maxfield and Sycamore,	275	15	41.83	Repaired, 18 feet wide.
Parker,	Summer and Cedar,	803	1,177	1,209.23	New, 17 feet wide.
Russell,	Fifth and Sixth,	200	152	185.95	New, 17 feet wide.
Spring,	Fifth and Sixth,	210	158	168.48	Repaired, 18 feet wide.
Second,	Coffin and Madison,	260	44	86.42	Repaired, 18 feet wide.
Union,	County and Cottage,	738	79	96.23	Repaired, 9 feet wide.
	Sundry small repairs,		144	690.70	
		12,841	10,854	$13,167.77	

TABLE No. 2.

Streets Graveled and Graded. — 1889.

Streets.	Between what Points.	Length. Feet.	Cost.
Acushnet ave,	Delano and Rockland,	1,340	$560.23
" "	Lund's corner and Freetown line,	4,000	581.35
Austin,	County street and Shawmut ave.,	1,010	333.77
Ash,	Maxfield and Bedford,	2,000	129.19
Allen,	Greene and Bonney,	215	18.96
"	Brigham st. and Dartmouth line,	400	21.32
Atlantic,	Union and Arnold,	200	19.17
Arnold,	Atlantic street and Rotch ave.,	400	27.53
Bonney,	Thompson and Rivet,	380	588.75
"	Grinnell and Washington,	155	8.50
Bowditch,	Logan and Weld,	326	17.47
Birch,	Allen street and Winterville road,	1,603	2,040.63
Borden,	Allen and Dartmouth,	632	23.00
Belleville road	Acushnet avenue and lower road,	590	141.30
Braleyville rd.	Acushnet ave. and Freetown line,	4,000	1,233.57
Bethel,	William and Elm,	300	7.40
Butler,	French avenue and middle road,	940	60.50
Bolton road,	Rivet street south,		14.87
County,	Linden and Purchase,	1,500	88.84
Campbell,	Chestnut and Park,	1,200	48.54
Cedar Grove,	Rock street and O. C. R. R.,	1,814	114.24
Cedar,	Robeson and Durfee,	150	6.90
Clark,	Mt. Pleasant and Purchase,	1,830	99.09
Cottage,	Locust and Robeson,	600	183.52
"	Willis and Campbell,	196	23.19
"	Sycamore and Hillman,	440	94.80
Cove road,	County street and Dartmouth line,	2,000	111.50
Chestnut,	Locust and Parker,	508	191.95
"	North and Mill,	177	20.08
Crapo,	Cove road and Thompson street,	2,200	328.87
Coggeshall,	Acushnet avenue and the river,	2,100	204.45
"	Purchase and County,	290	30.45
Clinton,	Cottage and Orchard,	220	5.50
Church,	Coffin avenue and Nash road,	500	40.86
Coffin ave.,	Bowditch and Rock,	800	67.95
Chancery,	Hillman and North,	250	22.70
Cherry,	Sixth and Seventh,	200	13.25
Division,	County and Crapo,	1,080	115.07
Durfee,	Rockdale and Shawmut avenues,	2,000	142.99
Dean,	Acushnet avenue and Rock street,	300	14.30
Emerson,	Union and Arnold,	100	179.63
Elm,	Summer and Ash,	1,020	96.23
"	Newton and Park,	100	6.42
Front,	Wamsutta and Washburn,	1,200	50.48
"	Howland and Grinnell,	530	61.15
First,	Grinnell and Rivet,	1,300	60.00
Franklin,	State and Pleasant,	280	53.35
Fourth,	Bedford and Wing,	70	7.15

Streets Graveled and Graded—*Continued.*

Streets.	Between what Points.	Length. Feet.	Cost.
French ave.,	Both sides,	2,100	$145.20
Grinnell,	Crapo and Orchard,	444	95.98
Gifford,	Water street and the river,	1,358	149.38
Grand,	West of Shawmut avenue,	200	15.00
Howard,	Cedar Grove and Coggeshall,	435	219.88
Howland,	First and Second,	220	15.30
Hicks,	Acushnet avenue and Front street,	600	30.59
Howard ave.,	Acushnet avenue and river road,	500	46.60
Hathaway rd.,	Mt. Pleasant st. and Shawmut ave.	1,600	247.35
Hillman,	Ash and Chancery,	410	119.05
Highland,	Mt. Vernon and Sutton,	1,450	46.67
Harmony,	Social and middle road,	300	49.25
Hall,	Rockland and Thompson,	365	156.98
Kilburn,	Front street and the river,	50	19.80
King Philip rd.	Acushnet ave. and Braleyville rd.,	200	19.65
Katharine,	County and Crapo,	450	25.40
Locust,	County and Cedar,	1,135	223.00
Liberty,	Kempton and Court,	974	175.60
Maxfield,	Ash and Hunter,	3,700	332.81
Mill,	Park and Newton,	333	205.58
Middle,	Cedar and Summer,	700	28.25
Mt. Vernon,	Shawmut av. and Mt. Pleasant st.,	1,200	248.18
Middle road,	French avenue south,	200	42.85
Marvin,	Acushnet ave. and Howard street,	330	45.35
Main,	Lund's corner and Acushnet line,	500	275.60
Mill road,	Main street and Acushnet ave.,	300	63.00
Mt. Pleasant,	F. R. R. R. and Plainville road,	200	11.97
Mosher,	County and Crapo,	800	149.46
North,	Ash and Newton,	334	36.38
"	County and Chestnut,	520	43.00
Nash road,	Acushnet ave. and Church street,	150	7.50
Nelson,	County street west,	50	16.80
Oak,	Dartmouth and Grape,	604	31.25
Orchard,	Grinnell and Washington,	186	11.77
Purchase,	Weld and Sawyer,	500	21.21
Penniman,	Purchase and County,	532	20.60
Park,	Parker and Kempton,	2,400	104.27
Pope,	County and Chestnut,	715	98.76
"	East of Acushnet avenue,	251	140.68
Peckham,	Mt. Pleasant and County,	1,452	193.82
Prospect,	Howland and Potomska,	400	18.70
Parker,	Rockdale ave. and Cemetery gate,	550	55.35
Peckham road,	Acushnet ave. and Acushnet line,	650	255.32
Plainville rd.,	Mt. Pleasant st. and Shawmut ave.	800	88.73
Potomska,	Prospect and Second,	50	12.00
Rockland,	Bonney and Dartmouth,	80	7.67
"	Crapo and County,	80	305.12
Rock,	Kilburn and Coggeshall,	800	397.91
"	Sawyer street and Coffin avenue,	800	670.50
Rivet,	Bonney and Dartmouth,	1,920	205.51

Streets Graveled and Graded—*Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.
Robeson,	Ashland and Cottage,	300	$16.09
"	West of Shawmut avenue,	650	77.08
Rotch ave.,	Arnold and Union,	100	13.00
Richmond,	Parker and Locust,	488	38.49
Reynolds,	Linden and Clark,	80	6.80
River road,	Main street and Howard avenue,	1,100	517.10
Sawyer,	County street and the river,	3,450	1,115.77
State,	Weld and Pope,	1,500	69.41
Sycamore,	Pleasant and Cedar,	2,000	224.97
Smith,	Shawmut ave. and Cemetery gate,	400	47.80
Spruce,	Maxfield and Sycamore,	50	5.00
Summer,	Middle and North,	600	24.08
Second,	Cannon and South,	1,750	543.85
"	Blackmer and Rivet,	200	7.53
Shawmut ave.,	Hathaway rd. and Dartmouth line,	4,200	723.90
Social,	East of French avenue,	150	38.70
Tremont,	Arnold and Harrington,	1,300	98.77
Tarkiln Hill rd	Lund's corner and O. C. R. R.,	2,600	219.02
Thompson,	County and Crapo,	200	30.48
Union,	Chancery and Ash,	60	5.50
Wilson,	Durfee and Austin,	500	47.29
Willow,	West of Cedar street,	250	96.93
Wamsutta,	Acushnet ave. and Front street,		10.48
Washburn,	Acushnet ave. and the river,	400	25.55
Weld,	Purchase and County,	500	27.84
Willis,	County and Park,	1,000	88.58
Wing,	Fourth and Sixth,	400	33.00
Winsor,	County and Crapo,	70	6.80
Washington,	Orchard and Dartmouth,	385	34.92
Walnut,	Acushnet ave. and Fourth street,	140	32.00
	Sundry small repairs,		563.54
		103,147	$19,047.81

TABLE No. 3.

Curbing and Gutters.—1889.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Ash,	Union and Arnold,	215	$158.96	New west side.
"	Hawthorn and Grove,	366	308.31	New east side.
Allen,	Cottage and Ward,	602	128.19	New north side.
"	Greene and Dartmouth,	277	25.41	Repaired gutter.
Acushnet ave.,	Potomska and Rivet,	540	543.73	New west side.
"	" "	560	157.89	New gutter east side.
"	School and Walnut,	70	52.66	New curbing east side.
"	Near Lund's corner,	50	8.83	Repaired gutter east side.
"	Hillman and Maxfield,	30	12.14	Repaired west side.
Ashland,	Robeson and Austin,	197	21.94	Repaired gutter west side.
Arnold,	Orchard and County,	40	6.63	Repaired gutter south side.
"	Chancery and Ash,	160	151.84	New north side.
Bedford,	Greene and Orchard,	72	71.30	New north side.
"	Fifth and Sixth,	255	14.75	Repaired south side.
"	" "	95	9.84	Repaired north side.
Borden,	Allen and Dartmouth,	626	417.39	New east side.
Cedar,	Parker and Locust,	489	416.82	New east side.
"	At Robeson,	54	38.59	New two corners.
Chestnut,	Willis and Parker,	74	51.25	New east side.
Cedar Grove,	Acushnet ave. and Howard street,	461	141.60	New gutter north side.
County,	Campbell and Willis,	60	7.87	Repaired west side.
Delano,	At Water,	12	10.42	New northwest corner.
Durfee,	At new engine house,	71	153.81	Fitting gutter, driveway and flags.
Elm,	Ash and Cedar,	203	97.81	Repaired both sides.
"	Cottage and Summer,	9	5 44	Repaired north side.
Front,	At Kilburn and Logan,	98	92.29	New broad gutters.

Fourth,	Madison and Russell,	467	320 01	New curbing east side.
"	Bedford and Wing,	388	277.55	New curbing west side.
"	At Thompson,	27	19.52	New southwest corner.
Fifth,	Walnut and School,	24	4.55	Repaired broad gutter.
Grinnell,	Bonney and Orchard,	132	107.17	New south side.
"	County and Crapo,	41	28.53	New south side.
Hazard,	Purchase and Pleasant,	201	37.79	Repaired south side.
"	Pleasant street west,	344	300.02	New south side.
"	County street east,	255	50.02	Repaired south side.
High,	Purchase and Pleasant,	85	55.17	New curbing south side.
Hawthorn,	Cottage and Ash,	375	290.83	New south side.
"	Page and Tremont,	462	373.45	New north side.
Kempton,	At Reed,	12	9.72	New corner south side.
Locust,	Cedar and Richmond,	167	32.40	New gutter north side.
"	Chestnut and Cedar,	459	117.97	New gutter north side.
Mt. Pleasant,	Peckham street and F. R. R. R.,	5,835	1,345.61	New gutter both sides.
Mill,	Purchase and Pleasant,	50	37.15	New north side.
Middle,	Front and Water,	121	9.25	Repaired south side.
North,	Second and Water,	117	76.49	New curbing north side.
"	Park and Newton,	340	87.23	New gutter north side.
Oak,	Dartmouth and Clay,	418	456.63	New east side raised to grade,
"	Clay and Harrison,	306	219.69	New west side.
Purchase,	Franklin and Merrimac,	61	41.85	New curbing east side.
"	North and Hillman,	10	12.45	New curbing and flags fitted, west
Pleasant,	Pope and Franklin,	550	56.52	Repaired both sides. [side.
"	Merrimac and Franklin,	542	84.37	Repaired both sides.
"	Hazard and Merrimac,	580	429.56	New curb west side, gutters rep'd
"	High and Middle,	74	47.45	New curbing east side. [both sides.
"	Hazard and Austin,	744	95.36	Repaired both sides.
"	Willis and Pearl,	233	215.95	New curbing and gutter repaired,
Parker,	Summer and Cedar,	1,604	378.82	New gutter both sides. [east side.
"	Park street and Rockdale avenue,	40	9.12	Repaired north side.
Robeson,	Cedar and Cottage,	12	9.45	New north side.

Curbing and Gutters—*Continued.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Rockdale ave.,	South of Hathaway road,	70	$18.26	New gutter west side.
Russell,	Fifth and Sixth,	200	27.43	Repaired gutter south side.
Smith,	Park street and Shawmut avenue,	420	99.73	New gutter south side.
School,	Acushnet ave. and Second street,	181	163.29	New curbing south side.
State,	Maxfield and Hillman,	80	67.81	New west side.
"	At Merrimac,	24	6.63	Repaired east side.
Sixth,	School and Walnut,	30	5.32	Repaired broad gutter.
Second,	Howland and Griffin,	40	25.04	New east side.
"	William and Elm,	80	8.40	Repaired east side.
Summer,	North and Hillman,	131	129.62	New east side.
Union,	Second street and Acushnet ave.,	154	11.96	Repaired south side.
"	At Emerson,	12	10.03	New southeast corner.
"	Eighth and County,	386	31.80	Repaired both sides.
"	Fourth and Fifth,	100	7.33	Repaired south side.
Willis,	County and Summer,	252	211.40	New south side.
"	Cottage and County,	300	31.50	Repaired north side.
Weld,	County and Reynolds,	71	42.26	New south side.
Washington,	Orchard and Sears,	77	69.06	New north side.
"	At Orchard,	24	5.75	Repaired south side.
"	Fourth and County,	42	40.73	New south side.
Water,	Howland and Grinnell,	148	10.50	Repaired east side.
"	At Blackmer,	24	18.02	Two new corners.
		23,608	$9,785.23	

TABLE No. 4.

Concrete Sidewalk Laid. — 1889.

Streets.	Between what Points.	Square Yards.	Cost.	Remarks.
Allen,	Bonney and Cottage,		$25.00	Repaired north side.
"	Bonney and County,		32.00	Repaired south side.
Ash,	Union and Arnold,	94.2	47.10	New west side.
Acushnet ave.,	School and Walnut,	77.3	38.65	New east side.
"	Washburn and Cedar Grove,	100.5	25.13	Repaired east side.
Austin,	County and Purchase,	348	87.00	Repaired north side.
Arch,	Union and Arnold,		30.00	Repaired west side.
Court,	Chancery and Emerson,	20	10.00	Repaired north side.
Cottage,	Hillman and North,	61	30.50	New east side.
County,	Rockland and South,	65.13	32.56	New west side.
"	" "	29.58	7.39	Repaired east side.
"	Fair and Washington,		15 00	Repaired west side.
Chancery,	Kempton and Court,		7.00	Repaired east side.
Dartmouth,	Cemetery gate north,	67.11	33.55	New west side.
Fifth,	Grinnell and Wing,		21.25	Repaired west side.
Fourth,	" "	48.7	24.35	New east side.
"	" "	9.8	7.35	New east side.
"	Bedford and Wing,	322	161.00	New west side.
Grinnell,	Bonney and Orchard,	106.5	53.25	New south side.
Grove,	Cottage and Anthony,	$46\frac{4}{9}$	23.22	New south side.
"	" "	$101\frac{23}{27}$	25.46	Repaired south side.
"	" "	34.2	8.57	Repaired north side.
High,	Purchase and Pleasant,	68.21	34.33	New south side.
Kempton,	Ash and Emerson,	207.13	104.41	New south side.
Merrimac,	Pleasant and State,		30.00	Repaired south side.
Maitland,	Cedar and Richmond,	78.9	39.45	New south side.

Concrete Sidewalk Laid.—*Continued.*

Streets.	Between what Points.	Square Yards.	Cost.	Remarks.
Pleasant,	High and Middle,	75.26	$37.63	New east side.
Purchase,	Austin and Linden,		17.60	Repaired west side.
Rockland,	County street and Acushnet ave.,	332.9	166.45	New north side.
Second,	Griffin and Howland,		10.00	Repaired west side.
"	Grinnell and Griffin,		7.75	Repaired east side.
"	" "		31.75	Repaired west side.
"	William and Elm,	74	55.50	New east side.
"	North and Mill,	17.64	8.82	New west side.
State,	Hillman and Maxfield,	67	33.50	New west side.
Summer,	North and Hillman,	165.6	82.80	New east side.
Union,	Ash and Arch,		6.00	Repaired south side.
Water,	Howland and Grinnell,		9.25	Repaired east side.
"	" "	117.61	58.80	New east side.
Willis,	Chestnut and Cottage,	171.57	85.75	New north side.
"	Cedar and Chestnut.	269.70	134.85	New south side.
	Sundry small repairs,		35.60	
		3,177.83	$1,735.57	

TABLE No. 5.

Cinder Sidewalks Laid. — 1889.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Austin,	Purchase and County.	150	$19.89	Repaired south side.
"	Cedar street and Shawmut avenue,	500	28.03	Repaired south side.
Acushnet ave.,	Maxfield and Campbell,	50	9.62	Repaired east side.
"	Blackmer and Division,	808	46.68	New both sides.
"	Cedar Grove and Coggeshall,	80	7.09	New west side.
"	Potomska and Rivet,	525	65.26	New west side.
"	Sawyer street north.	400	19.00	New west side.
Ash,	Mill and Arnold,	1,080	62.23	New west side.
"	Hillman and Maxfield.	250	24.85	New west side.
"	Hawthorn and Grove,	325	16.98	New east side.
Arnold,	Ash and Chancery.	150	5.49	Repaired north side.
Borden.	Dartmouth and Allen.	490	40.83	New east side.
Blackmer,	Water and First,	150	9.86	New north side.
Belleville road	Acushnet avenue and lower road,	1,200	104.10	New north side.
Bonney,	Washington and Rockland,	200	17.85	New both sides.
Bowditch,	Weld and Cedar Grove,	310	42.64	New east side.
Brownell,	Union and Court,	200	5.60	New west side.
Campbell,	Cedar and Cottage,	275	30.35	New south side.
Cedar,	Austin and Robeson,	450	7.02	Repaired east side.
Crapo,	Rockland and Washington,	400	39.09	New west side.
Chestnut,	Willis and Parker,	60	5.46	New east side.
Cottage,	Locust and Robeson,	250	36.95	New west side.
"	Arnold and Union,	250	22.14	New east side.
"	Campbell and Smith,	250	30.18	New both sides.
Cannon,	Second and Water,	325	15.79	New south side.
County,	Hazard and Austin.	425	17.08	New east side.

Cinder Sidewalks Laid—*Continued.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
County,	Weld and Linden,	150	$27.59	New east side.
"	Cedar Grove and Peckham,	250	9.73	New west side.
Clark,	State and Purchase,	300	5.19	Repaired north side.
Cedar Grove,	Bowditch street and O. C. R. R.,	650	68.84	New both sides.
"	Acushnet ave. and Howard street,	275	22.65	New north side.
Cherry,	Sixth and Seventh,	175	5.55	
Division,	County and Crapo,	847	73.90	New north side.
Durfee,	Shawmut avenue and Cedar street,	1,000	45.73	Repaired north side.
"	Rockdale and Shawmut avenues,	1,700	61.20	New north side.
Elm,	Emerson and Chancery,	125	9.38	New south side.
Emerson,	Union and Arnold,	100	18.05	New east side.
First,	Rivet and Potomska,	505	17.90	New west side.
Florence,	Kempton and North,	200	5.45	New west side.
Fourth,	Grinnell and Wing,	90	5.00	New east side.
"	Washington and South,	100	40.20	New west side.
Front,	Howland and Grinnell,	430	34.60	New east side.
First,	Dartmouth and Mulberry,	450	13.30	New south side.
Grove,	Cottage and Ash,	525	11.47	New north side.
Hawthorn,	Ash and Cottage,	300	44.51	New south side.
Hillman,	Chancery and Ash,	200	13.65	New north side.
Hazard,	Purchase and County,	650	27.72	New south side.
"	Pleasant and Purchase,	150	12.10	Repaired north side.
James,	Union and Arnold,	525	80.12	New west side.
Kempton,	Florence and Hunter,	100	6.98	New north side.
Katharine,	County and Crapo,	121	11.59	New south side.
Leonard,	Water street east,	500	51.62	New both sides.
Locust,	County and Cedar,	1,330	66.43	Repaired north side.
Lindsey,	Court and Kempton,	750	44.50	Repaired both sides.

Madison,	Fifth and Sixth,	225	8.61	Repaired south side.
Mt. Pleasant,	Peckham street and F. R. R. R.,	3,580	304.58	New both sides.
Maxfield,	Park street west,	300	14.65	New south side.
"	Ash and Cedar,	225	11.16	New north side.
Mosher.	County and Crapo,	126	5.00	New south side.
North,	Park and Newton,	275	37.30	New north side.
Newton,	Kempton and Elm,	500	6.65	Repaired west side.
Oak.	Dartmouth and Grape,	825	56.92	New both sides.
Orchard,	Grinnell and Washington,	188	16.09	New east side.
Park,	Court and Arnold,	350	25.96	Repaired west side.
Purchase,	Clark and Penniman,	100	8.45	New east side.
"	Coggeshall and Sawyer,	500	32.69	Repaired west side.
Pope,	Acushnet ave. east,	200	7.47	New north side.
Parker,	Cedar street and Shawmut ave.,	225	7.03	Repaired south side.
Rockland,	Bonney and Dartmouth,	1,200	172.35	New both sides.
Rock,	Washburn and Kilburn,	300	7.14	New east side.
Rivet,	Acushnet ave. and County street,	263	18.20	New south side.
"	County street and Bolton road,	1,500	51.46	Repaired north side.
Second,	Blackmer and Delano,	150	6.05	New west side.
"	Potomska and Blackmer,	180	9.45	Repaired east side.
Sisson,	Court and Union,	250	23.01	New east side.
Shawmut ave.,	Parker and Locust,	500	33.72	New west side.
Sawyer,	Acushnet avenue and the river,	1,500	121.91	New both sides.
Sycamore,	Ash and Cedar,	250	6.05	Repaired north side.
State,	Clark and Penniman,	150	15.35	Repaired east side.
Social,	French ave. and Harmony street,	202	17.38	New north side.
Tremont,	Court and Arnold,	450	57.25	New both sides.
Thompson,	Warwick and County,	25	5.30	New north side.
Union.	Ash street and Rotch avenue,	1,600	151.16	New south side.
Winsor,	County and Crapo,	800	69.74	New north side.
Welcome,	French ave. and Harmony street,	105	14.57	New north side.
Wilson,	Austin and Durfee.	250	18.15	Repaired west side.
Warwick,	Thompson and Rockland,	300	30.73	New west side.

Cinder Sidewalks Laid—*Continued.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Washington,	Orchard and Dartmouth,	150	$13.52	Repaired north side.
Ward,	Bay and Dartmouth,	50	9.55	New east side.
Water,	South and Griffin,	150	28.42	New east side.
Willis,	County and Summer,	250	16.67	Repaired north side.
		40.245	$3,004.70	

TABLE No. 6.

Paving New and Old.—1889.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Acushnet ave..	Middle and Pearl,	3,000	$93.20	Repaired.
"	Union and Russell,	2,800	108.43	Repaired.
Austin,	Pleasant and County,	162	247.46	New 33 feet wide.
Ash,	Union and Court,	234	232.36	New 20 feet wide.
Bedford,	Fifth and Sixth.	213	194.60	New 19 feet wide.
Cedar,	Parker and Robeson,	600	542.31	New 14 feet wide.
County,	At junction of Sixth,		19.38	New around fountain.
Dartmouth,	Hickory and Oak,	60	73.56	New 29 feet wide.
Elm,	County and Summer,	262	206.22	New 18 feet wide.
Emerson,	Court and Elm,	83	115.97	New 10 feet wide.
Front,	Bridge square.	74	159.75	Repaired 61 feet wide.
Fourth,	Russell and Madison,	610	966.71	New 19 feet wide.
"	Square at Madison,	35		New 26 feet wide.
"	Madison and School,	623		New 9 feet wide.
"	Square at Wing,	30	26.46	New 14 feet 8 inches wide.
First,	South and Potomska,	150	35.10	Repaired.
Kempton,	Jenney street and Rockdale ave..	500	36.52	Repaired.
Logan,	Purchase street and O. C. R. R.,	19	33.18	New 33 feet wide.
Middle,	Front and Second,	550	428.59	Repaired 19 feet wide.
North,	Second street and Acushnet ave..	205	206.10	Repaired 24 feet wide.
Purchase,	Union and Weld,	6,400	1,026.46	Repaired 24 feet wide.
Pearl,	Pleasant and County,	700	97.00	Repaired 24 feet wide.
Pleasant,	Square at Hazard,	30	13.75	Repaired.
Parker,	Square at Summer,	30	33.74	New 24 feet wide.
Pope,	Purchase and Pleasant,	100	30.95	Repaired 24 feet wide.
Robeson,	Cedar and Cottage.	30	33.22	New broad gutter.

Paving New and Old.—*Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Second,	North and Kempton,	250	65.39	Repaired.
Summer,	Half square at Campbell,	30	21.68	New 21 feet wide.
School,	First and Water,	136	31.61	Repaired 24 feet wide.
South,	Front and First,	131	164.85	Repaired 25 feet wide.
Union,	Square at Ash,	30	56.48	New 30 feet wide.
"	First street and Acushnet avenue,	394	280.03	Repaired 26 feet wide.
"	Fourth and Fifth,	263	1,484.64	New blocks, 23 feet wide.
"	Eighth and County,	193	1,324.37	New blocks, 23 feet wide.
"	Square at Sixth,	30	102.72	New blocks.
"	Seventh and Eighth,	70	191.81	New blocks, 12 feet wide, north side.
Water,	School and Cove,	5,600	1,637.74	Repaired.
"	North and Hillman,	25	10.37	Repaired 12 feet wide.
	Sundry small repairs,		151.30	
		24,652	10,484.01	

TABLE No. 7.

Flagging, New and Old.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Acushnet ave.,	Walnut and School,	310	$34.25	Repaired, both sides.
"	Russell and Madison,	550	56.05	Repaired, east side.
Arnold,	Orchard and County,	136	235.93	Repaired, south side.
Allen,	Green and County,	57	5.00	Repaired, north side.
Ashland,	Austin and Durfee,	869	203.92	Repaired, west side.
Bedford,	Green and Orchard,	117	106.60	Repaired, north side.
"	Fifth and Sixth,	95	13.85	" "
"	" "	150	7.50	Repaired, south side.
County,	Kempton and Sycamore,	800	23.30	Repaired, west side.
"	Elm and William,	100	8.20	Repaired.
"	Allen and Forest,	122	24.44	Repaired, west side.
"	Willis and Pearl,	180	11.91	Repaired.
Dartmouth,	Borden and Allen,	728	144.32	Repaired, west side.
Foster,	High and Middle,	200	10.45	" "
"	Maxfield and Hillman,	20	8.50	Repaired, east side.
Fourth,	Union and Spring,	25	5.70	Repaired, west side.
"	Madison and Russell,	665	103.19	Repaired, east side.
Linden,	Pleasant and State,	216	75.25	Repaired, north side.
Middle,	Water and Front,	79	21.60	Repaired, south side.
Mill,	Purchase and Pleasant,	72	64.10	New, north side.
Madison,	Orchard and County,	77	64.91	New, south side.
Maple,	Cottage and Ash,	500	44.70	New, north side.
North,	Second and Acushnet avenue,	190	22.90	Repaired, south side.
"	Water and Second,	109	132.81	New, north side.
Orchard,	Grove and Hawthorn,	240	22.80	Repaired, west side.
Pleasant,	Elm and William,	200	16.80	Repaired.

Flagging — *Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Purchase,	Mill and North,	70	88.65	New, west side.
"	Merrimac and Franklin,	97	86.59	New, east side.
"	" "	87	11.00	Repaired, west side.
"	Hillman and North,	20	5.20	Repaired, east side.
Seventh,	Union and Spring.	67	15.25	" "
Smith,	Cedar and Emerson,	88	89.88	New. south side.
Second.	William and Elm,	100	6.24	Repaired, east side.
Thomas,	Maxfield and Hillman,	130	8.70	" "
Union,	Water and Second,	20	11.90	Repaired, south side.
"	Eighth and County,	416	120.61	Repaired, both sides.
"	Purchase and Fifth,	140	33.01	Repaired, south side.
William,	County and Eighth,	160	43.05	" "
"	Sixth and Eighth,	230	11.53	Repaired, both sides.
Water,	Spring and Walnut,	400	31.61	Repaired, west side.
"	Cove and Spring,	4,000	259.37	Repaired, both sides.
Washington,	Bonney and Crapo,	200	7.99	Repaired, south side.
		13,032	$2,299.56	

TABLE No. 8.

Crosswalks, New and Old.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Acushnet ave.,	Maxfield and Campbell,	10	$5.46	New paved driveway, west side.
"	Coffin avenue and Davis street,	11	7.30	" " "
"	At Grinnell,	72	19.41	Four crossings repaired.
"	Sawyer street and Coffin ave.,	12	5.07	Repaired driveway, west side.
"	At Cedar Grove,	24	8.85	" " "
Ash,	Union and Arnold,	19	14.70	New driveway, west side.
Arnold,	Ash and Chancery,	46	14.61	Repaired, north side.
Anthony,	At Grove,	45	32.06	New, west side.
Bedford,	At Sixth,	48	33.38	New, north side.
"	Green and Orchard,	48	40.33	" "
Cove,	East of of Water,	21	21.64	New driveway, north side.
Cedar,	At Parker,	48	9.45	Repaired, both sides.
"	At Smith,	24	5.00	Repaired, west side.
"	At Locust,	24	19.32	New, east side.
"	At Robeson,	24	7.03	Repaired, west side.
"	At Morgan,	24	21.80	New, east side.
Cottage,	At Court,	24	19.13	New concrete, west side.
"	"	26	20.54	New concrete, east side. [gutter fitted.
Durfee,	Ashland and Mt. Pleasant,	72	153.81	New driveway, S. side, curbing, flags, and
Dartmouth,	At entrance to Cemetery,	14	28.55	New driveway of paving blocks.
Franklin,	At Pleasant,	25	5.00	Repaired, south side.
Fourth,	At Wing,	25	5.48	Repaired, west side.
"	At Rivet,	55	42.15	New, west side.
Front,	Union and Centre,		5.14	New paved driveway, west side.
Foster,	At Maxfield,	24	16.56	New concrete, east side.
"	" "	26	19.56	New concrete, west side.

Crosswalks, New and Old — *Concluded.*

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Grove,	At Ash,	26	28.00	New concrete, north side.
Hawthorn,	Page and Tremont,	74	67.25	Two new driveways, north side.
Locust,	At Cedar,	24	17.90	New, north side.
Middle,	Water and Front,	24	5.00	Repaired, south side.
Madison,	At Fourth,	37	26.35	New, south side.
Orchard,	At Grinnell,	23	9.69	Repaired crosswalk and gutter, east side.
"	Grove and Bedford,	24	8.90	Repaired driveway, west side.
Pearl,	At Pleasant,	52	34.95	New, south side.
Purchase,	At Willis,	48	6.65	Repaired, west side.
Pleasant,	At Pearl,	72	12.45	Repaired, both sides.
Parker,	At Summer,	44	8.15	Repaired, south side.
"	County and Summer,	24	9.60	Repaired in front of school-house.
Rivet,	At County,	36	33.21	New concrete, north side.
State,	Maxfield and Hillman,	24	21.61	New driveway, west side.
"	At Maxfield,	24	17.93	New concrete, west side.
"	At Sycamore,	96	15.39	Repaired four crossings.
Smith,	At County,	34	27.96	New concrete, north side.
"	At Shawmut avenue,	48	35.30	" "
Second,	At Middle,	44	5.10	Repaired, east side.
Summer,	At Parker,	24	8.00	" "
Thompson,	At County,	36	30.84	New concrete, north side.
Union,	Second st. and Acushnet ave.,	26	5.50	Repaired.
"	At Ash,	24	5.15	Repaired, south side.
"	At Sixth,	132	7.58	Repaired three.
"	Fourth and Fifth,	43	28.47	New.
"	At Fifth,	44	8.00	Repaired, south side.
"	At Purchase,	44	5.00	Repaired, west side.
"	At Park,	26	16.78	New concrete, south side.

Willis,	At Purchase,	18	5.45	Repaired, north side.
"	At Chestnut,	26	16.60	New concrete, north side.
Walnut,	At Fourth,	40	26.00	New, both sides.
"	At County,	31	26.40	New concrete, north side.
Water,	At Blackmer,	32	24.22	New, both sides.
"	High and Middle,	24	5.10	Repaired driveway, east side.
Weld,	At Purchase,	66	50 05	New, south side.
Wamsutta,	" "	44	11.51	Repaired, north side.
		2,249	$1,253.37	

TABLE No. 9.

Bank Walls Built.

Streets.	Between what Points.	Cost.	Remarks.
Cove road,	County and Crapo,	$564.25	Rip-rap, south side.
Coggeshall,	Front st. and the river,	54.18	Not finished, south side.
Rock,	Sawyer st. and Coffin av.,	208.35	Not finished, east side.
Rivet,	Bonney and Juniper,	51.75	North side.
		$878.53	

TABLE No. 10.

Fences Built.

Streets.	Between what Points.	Cost.	Remarks.
Hillman,	Ashland and Chancery,	$10.17	South side.
Liberty,	Court and Elm,	15.88	East side.
Rivet,	Bonney and Juniper,	34.39	North side.
		$60.44	

MISCELLANEOUS.

Sundry bills for repairs and supplies furnished the department, and not otherwise accounted for,	$19,852.02
Trimming trees,	401.13
Removing snow and ice,	14.04
Cleaning streets,	3,405.32
Sanding sidewalks,	90.26
Repairs on steam road-roller, crushers, boilers, engines, and scales,	1,444.25
Sundry small repairs, picking up stones, carting stock to lot, &c.,	939.50
Cost of new machinery,	1,360.60
Sundry small repairs on flagged sidewalks,	715.61
Paid Town of Dartmouth, settlement of Acts of 1888, damage, Sect. 4, Chap. 298,	2,920.00
Salaries and clerk-hire,	2,263.57
Fixtures and stock on hand in blacksmith shop,	573.54
Extra stock on hand for use in 1890,	1,824.90
	$35,804.74

RECAPITULATION.

Macadam, new and old,	$13,167.77
Streets graveled and graded,	19,047.81
Curbing and gutters,	9,785.23
Concrete sidewalks laid,	1,735.57
Paving, new and old,	10,484.01
Cinder sidewalks,	3,004.70
Flagging, new and old,	2,299.56
Crosswalks, new and old,	1,253.37
Fences built,	60.44
Bank walls built,	878.53
Miscellaneous,	35,804.74
	$97,521.73

CREDITS.

Appropriation,	$78,000.00
Transfer from unappropriated funds to pay Town of Dartmouth, settlement of Acts of 1888, damages, Sect. 4, Chap. 298,	2,500.00
Received for stock, labor, teaming, &c.,	17,030.72
	$97,530.72
Expended,	97,521.73
Transfer to balance,	$8.99

STREET DEPARTMENT.

INVENTORY OF PROPERTY, STABLE AND TOOL-HOUSES, JANUARY 1st, 1890.

28 horses,	$4,300.00
7 double carts,	1,350.00
7 single carts,	840.00
2 double gears, (1 with derrick,)	350.00
1 single gear,	75.00
1 single lumber wagon,	65.00
2 express wagons,	140.00
2 light wagons,	200.00
9 sets double harness,	360.00
8 sets single harness, heavy,	150.00
5 steel horse collars,	20.00
16 feed baskets,	9.00
12 stable pails,	10.00
35 tons of hay,	612.50
4 tons of straw,	62.00
100 bushels grain,	60.00
4 carriage robes,	20.00
25 horse blankets,	26.00
17 six-tined forks,	16.00
5 hay forks,	4.00
1 hay knife,	1.00
7 wheel jacks,	5.00
30 hitch halters,	15.00
7 wagon wrenches,	7.00
5 monkey wrenches,	5.00
1 sleigh,	30.00
2 large ash sleds,	250.00
1 harrow,	40.00
2 stone-drags,	6.00
32 plow points,	32.00
1 two-horse dirt scoop,	9.00
1 road scraper,	175.00
1 street sweeper,	350.00
1 watering cart,	425.00
1 iron road roller,	380.00
1 stone road roller,	125.00
1 bushel basket,	.60
20 bushels carrots,	5.00
1 wash-tub,	.75
8 small pigs,	50.00
1 water tank,	5.00

1 carriage pole,	15.00
1 set light double harness,	48.00
1 riding saddle,	5.00
1 express harness,	18.00
1 set horse slings,	20.00
6 oil squirters,	3.00
1 belt punch,	.45
4 pipe tongs,	8.00
50 feet garden hose,	3.00
4 tool-houses,	100.00
5 tool boxes, (1 on wheels,)	20.00
30 sledges,	90.00
47 iron bars,	72.50
3 stone-hammers,	5.61
12 stone-breaking hammers,	20.00
4 striking hammers,	8.00
7 drilling hammers,	14.00
16 blowing drills,	44.00
89 small drills,	44.50
6 blasting spoons,	4.50
40 stone-chisels,	20.00
8 stone-sets,	5.00
42 stone-points,	20.00
6 spirit levels,	12.00
5 iron squares,	6.00
11 stone-chains,	22.00
30 stone-tubs,	20.00
2 trowels,	1.00
17 paving hammers,	34.00
9 paving pounders,	27.00
15 paving brooms,	10.00
43 long-handle shovels, R. P.,	21.50
2 road plows,	20.00
51 long-handle shovels, S. P.,	25.50
69 short-handle shovels, S. P.,	35.00
112 short-handle shovels, R. P.,	56.00
13 long-handle scoop shovels,	7.00
9 short-handle scoop shovels,	4.50
61 hoes,	15.25
61 pick-axes,	94.50
13 mattocks,	20.00
3 bill-hooks,	3.00
1 scythe,	2.00
9 iron rakes,	4.50
10 dirt-pounders,	5.00

6 flag-tampers,	5.00
1 pinch-bar,	1.00
6 cross-cut saws,	20.00
5 hand-saws,	2.00
15 narrow axes,	11.25
1 hatchet,	.50
3 planes,	1.50
2 augers,	.75
2 bit-stocks and 24 bits,	6.00
3 screwdrivers,	.50
4 small hammers,	1.00
10 iron wedges,	3.00
19 wood wheelbarrows,	15.00
22 iron wheelbarrows,	100.00
3 small chains,	4.50
55 lanterns,	41.00
36 lantern globes,	3.00
10 street horses,	5.00
24 water pails,	2.50
10 ladders,	15.00
1 set blocks and falls, large,	7.00
2 snow-plows,	10.00
66 snow-shovels,	20.00
8 ice-spades,	4.00
2 sand-screens,	10.00
40 tons beach sand, for sanding sidewalks,	35.00
3 stoves and pipes,	25.00
25 lbs. nails,	1.00
7 blocks iron,	3.00
22 bound-stones,	15.00
1000 feet old flagstone,	120.00
262 feet new flagstone,	44.54
221 feet old curbing,	88.00
211 feet curbing corners,	111.83
603 feet new crosswalk,	337.68
150 feet old crosswalk,	45.00
300 large paving blocks,	90.00
17,823 small paving blocks,	891.15
250 tons cobble paving,	250.00
200 tons crushed stone,	250.00
150 tons screenings,	187.50
1 set runners for lumber wagon,	10.00
4 fork-hoes,	2.00
5 drinking dippers,	1.00
5 scoop shovels,	2.50

15 lantern hooks,	1.50	
7 large blocks,	5.00	
1 pair barrel skids,	3.00	
6 wire window screens,	1.00	
1 wire door screen,	2.00	
3 sets small blocks,	3.00	
2 sets large Fairbanks scales,	300.00	
6 sickles,	3.00	
1 8-foot straight-edge and level combined,	2.00	
1 stone-reamer,	.50	
18 dozen pick handles,	54.00	
3 long-handle scrapers,	1.50	
1 stub scythe,	.75	
6 large points,	4.50	
20 lbs. wedges and backing,	2.80	
1 top-maul,	2.00	
4 sets trace chains,	5.00	
4 large eveners,	4.00	
4 hose wrenches,	1.00	
40 gallons kerosene oil,	4.00	
40 lbs. wheel grease,	4.00	
25 lbs. new tow line,	2.50	
100 lbs. tree ropes,	10.00	
14 sledge handles,	2.10	
3 water tubs,	3.00	
2 sets small falls,	12.00	
3 sets lead harness,	35.00	
3 sets light harness,	40.00	
1 derrick with wheels,	30.00	$14,959.01

ROLLER-HOUSE.

1 lathe, screw-cutting,	$160.00	
33 feet belt, 2½-inch,	8.25	
22 feet belt, 2-inch,	4.40	
2 shafts, bought with lathe.		
8 lbs. tools for turning steel,	1.60	
½ chuck beach,	8.00	
15-inch chuck, bought with lathe.		
2 plates, dies ¼ to ⅝, screw-cutting,	5.00	
1 ratchet,	3.00	
21 drills, flat, small,	5.00	
18 taps, ¼ to 1-inch,	9.00	
5 reamers,	3.00	
8 twist drills, ¼ to 1-inch,	7.50	
2 punches, belt,	1.50	

2 bits,	.50	
1 bit, extension, 1 to 2½ inches,	2.00	
12 files, old,	.50	
6 files, new,	2.25	
1 axe,	.50	
2 grindstones, small, large,	12.00	
1 jack, hydraulic,	60.00	
3 jacks, screw,	12.00	
1 stove, new,	16.00	
1 ladder,	1.00	
1 chisel, turning,	.50	
1 vise,	3.00	
1 gouge,	.50	
3 chisels, flat,	.75	
1 wrench, stilson,	2.50	
1 ladle,	.50	
28 gals. oil, cylinder,	21.00	351.75

STEAM ROAD ROLLER.

1 roller,	$5,300.00	
1 monkey wrench, large,	3.00	
2 monkey wrenches, small,	3.00	
1 hammer, copper,	.75	
1 hammer, iron,	1.50	
1 plier, pipe,	.50	
3 oil-feeders, brass,	1.50	
6 oil-cans, tin,	.90	
10 wrenches, flat, small,	2.00	
2 lanterns,	1.50	
15 wrenches, flat, large,	3.75	
2 chains, iron, small,	1.20	
1 canvas covering,	12.00	
1 bar-pinch,	2.00	
1 set gears, top, new,	242.00	
2 sets gears, pinion, new,	46.00	
40 feet hose, suction, 1-inch,	24.00	
30 feet hose, small,	1.50	5,647.10

STATIONARY ENGINE.

1 engine, 1 boiler and setting,	$1,270.00	
1 wrench, monkey,	1.00	
1 punch, belt,	.75	
4 chisels, flat,	1.00	
2 files,	.25	
1 vise,	2.00	

2 pails,	.25	
1 shovel, scoop,	.50	
1 axe,	.50	
1 saw,	.50	
12 lbs. packing, rubber,	4.80	
8 lbs. packing, soapstone,	2.40	
1 chest,	1.00	
3 wrenches, flat,	.50	1,285.45

PORTABLE ENGINE.

1 engine and boiler,	$800.00	
1 wrench, large, bought with engine.		
2 wrenches, small, bought with engine.		
4 wrenches, flat, bought with engine.		
2 chisels, flat,	.50	
1 square,	1.50	
1 level, spirit,	2.00	
3 files,	.50	
1 screwdriver,	.25	
1 hammer, copper,	.75	
1 pair dividers,	.30	
1 pair nippers,	.25	
1 pump,	2.50	
1 belt, 9-inch, rubber, new,	29.00	
1 axe,	.50	
1 saw,	.50	
4 casks, large,	20.00	858.55

STONE CRUSHER.

18 plates,	$45.00	
7 jaws,	105.00	
6 bushings,	18.00	
1 oil-can, brass,	1.00	
2 crushers,	1,500.00	
15 lbs. Babbitt metal,	7.50	1,676.50

BLACKSMITH SHOP.

63 lbs. spring steel,	84.42
33½ lbs. machine steel,	1.95
60 lbs. pick steel,	6.00
55 lbs. cast-steel,	8.80
37 lbs. drill steel,	3.70
103 lbs. small band iron,	3.09
55 lbs. large band iron,	1.38
266 lbs. refined iron,	6.65
122 lbs. Norway iron,	5.41

114 lbs. round iron,	3.42
62 lbs. steel punch and pins,	6.20
324 lbs. anvil,	32.40
1 swage block,	3.00
4 top swage blocks,	6.00
2 hot chisels,	1.50
60 lbs. heading tools,	6.00
1 cold chisel,	1.00
2 sets hammers,	2.00
3 fuller hammers,	3.00
1 anvil cutter,	1.20
1 sharpening stake,	1.50
1 set of wedge tools,	1.25
8 lbs. hand cold-chisels,	1.60
1 tool bench,	1.50
1 steel square,	1.50
10 pair large tongs,	18.00
3 pairs small tongs,	3.00
1 brick forge,	45.00
1 Buffalo forge,	24.00
1 pair bellows,	22.00
3 tubs,	5.00
2 vise benches,	6.00
2 vises,	6.50
1 stove and pipe,	3.75
1 set screw-plate, 7 sizes and taps,	20.00
1 large set screw-plate, 6 sizes and taps,	50.00
18 lbs. borax,	2.70
1 large monkey wrench,	3.00
1 small monkey wrench,	1.75
2 fork wrenches,	1.25
1 key wrench,	4.00
2 bit-stocks,	2.75
15 bits,	3.50
6 round files,	1.75
6 half-round files,	1.88
6 flat files,	1.88
12 file handles,	.36
1 hand-saw,	1.75
6 wooden horses,	4.00
2 bolt racks,	8.00
10,000 lbs. coal,	2.25
Tire oven and tools,	70.00
500 lbs. scrap iron,	3.25
2 oil-cups,	.60

1 axletree set,	5.00	
1 large sledge-hammer,	3.50	
1 small sledge-hammer,	2.00	
1 shovel,	1.25	
1 forge shovel and poker,	2.00	
38 lbs. washers,	3.80	
5343 lbs. carriage and tire bolts,	98.00	
1 set tire stone,	25.00	572.94
		$25,351.30

TABLE No. 11.

General Sewers.

Sewers Built.

Streets.	Between what Points.	Length. Feet.	Cost.	Remarks.
Acushnet ave., No. 5,	Walnut street north,	204	$652.49	10-inch vitrified pipe.
Clinton,	Ash street east,	520	639.58	10 and 12-inch vitrified pipe.
Cedar Grove,	Purchase and County,	496	1,137.89	18-inch vitrified pipe.
County, No. 2,	Sawyer, Purchase to County, thence south to near Peckham,	913	2,585.92	10, 12, 15 and 18-inch vitrified pipe; cost increased by ledge work.
County, No. 3,	Weld street south,	370	547.59	10-inch vitrified pipe.
Division,	Second and County,	530	616.71	10 and 12-inch vitrified pipe.
Gifford,	From the river west,	946	1,145.46	18-inch vitrified pipe.
James,	Arnold, Tremont to James, thence N.	800	2,167.39	10 and 12-inch vitrified pipe.
Kempton,	Second, High to Kempton, thence west,	563	1,754.17	10-inch vitrified pipe; cost increased by ledge work.
Liberty,	Court street north,	924	774.08	10 and 12-inch vitrified pipe.
Maitland,	Cedar street west,	316	315.80	10-inch vitrified pipe.
Mill, No. 2,	Park and Newton,	354	716.50	15-inch vitrified pipe.
Oak,	Grape and Allen,	497	7,210 05	Brick, 48-in. diameter, lower half two courses, upper half one course, 6 in. under drain; cost increased by ledge work.
Pearl & Willis,	Extension, O. C. R. R. east,	1,297	7,152.82	Rip-rap and filling.
Rivet, No. 2,	Dartmouth street east,	1,167	3,942.52	15 and 18-inch vitrified pipe.
Rivet, No. 3,	Water street west,	572	498.01	10-inch vitrified pipe.
Shawmut ave.,	Parker street north,	550	657.16	12-inch vitrified pipe.
South Front,	Blackmer street south,	375	1,093.15	10 and 12-inch vitrified pipe; cost increased by ledge work.
Washington,	Bonney street west,	674	2,414.99	10 and 12-inch vitrified pipe; cost increased by ledge work.
		12,068	$36,022.28	

TABLE No. 12.

GENERAL SEWERS — *Continued.*

Sand-Catchers Built.

Streets.	At what Points.	Cost.	Remarks.
Allen,	South side, at Ward,	$169.38	
Acushnet ave.,	East side, at Coggeshall,	149.84	
Ash,	East side, at Union,	126.15	
Arnold,	North side, west of Chancery,	107.33	
Bedford,	North side, at County,	115.11	
County,	East side, at Delano,	112.53	
Dartmouth,	West side, at Oak,	151.62	
"	West side, at Orchard,	103.44	
Division,	North side, County and Crapo,	111.42	
North,	South side, at Ash,	113.51	
Oak,	South side, at Grape,	119.16	This includes cost of eye-hole on opposite side of street,
Pope,	North side, at Purchase,	135.56	
Purchase,	West side, at Weld,	124.45	
Prospect,	East side, at Howland,	115.89	
Rivet,	North side, at Juniper,	119.82	This includes cost of eye-hole on opposite side of street.
"	North side, west of Bonney,	107.17	
Reynolds,	East side, at Clark,	146.95	
Robeson,	North side, at Cedar.	116.87	
Washington,	North side, at Orchard,	116.94	
"	South side, at Orchard,	125.85	
Wing,	North side, at Fourth,	120.87	
Weld,	South side, at County,	147.68	
"	North side, east of Bowditch,	132.19	
"	South side, at O. C. R. R.,	103.31	
		$2,981.04	

TABLE No. 13.

General Sewers — *Continued.*

Eye-Holes Built.

Streets.	At what Points.	Cost.	Remarks.
Acushnet ave.,	East side, south of Wamsutta,	$9.98	
Mt. Pleasant,	Both sides, north of Peckham,	181.09	This includes cost surface drain 374 feet long, of 10-inch pipe, into lot on east side of street.
"	Both sides, south of F. R. R. R.,	222.74	This includes surface drain, 222 ft. long, of 15-in. pipe, and 48 ft. of 12-in. pipe, into lot on W. side of st.
Pope,	South side, at Purchase,	18.44	
Reynolds,	West side, at Clark,	28.55	
Robeson,	South side, at Cedar,	38.44	
Second,	East side, bet. Potomska and South,	25.27	
Weld,	South side, east of Bowditch,	34.25	
		$558.76	

Culverts Built.

Streets.	At what Points.	Cost.	Remarks.
Allen,	At Oak street,	$196.20	114 feet 10-inch vitrified pipe.
Cove road,	At brook, south of Howland Mills,	363.62	Three rows, 50 ft. each, of 24-in. pipe.
Coffin ave.,	At Rock street,	145.46	Stone.
French ave.,	East side, at Butler street,	39.55	84 feet 10-inch vitrified pipe.
Main,	South side, at end of River road,	61.67	115 feet 10-inch vitrified pipe.
Rock,	North of Sawyer,	41.23	58 feet 18-inch vitrified pipe.
		$847.73	

TABLE No. 14.

General Sewers — *Continued.*

Sand-Catchers, Sewers, and Surface Drains Cleaned and Repaired.

Description and Location of Work Done.	Cost.
Repaired sand-catcher, Fourth and School streets; repaired sand-catcher, Sycamore and Summer streets; closed up eye-hole, Crapo street, at brook; repaired sand-catcher, Walden and Sycamore streets; raised scuttle-frames to two sand-catchers, Union and Eighth streets; rebuilt man-hole, Hillman, between Purchase and Pleasant streets; repaired man-hole, Maxfield and State streets; repaired Rockland Street sewer; repaired surface drain, Harrison and Oak streets; new surface drain, Park and Hillman streets; repaired sand-catcher, Chancery and Elm streets; repaired eye-hole, Purchase and Clark streets; new man-hole, Coggeshall street, at the river; new man-hole, Campbell, east of Cedar street; new man-hole, Richmond, near Maitland street; repaired culvert, Acushnet avenue and Pope street; new surface drain, Coggeshall and Rock streets; repaired sand-catcher, Austin and County streets; repaired culvert, Tremont, between Court and Arnold streets; repaired sand-catcher, Madison street, between Fifth and Sixth; repaired eye-hole, Purchase and Franklin streets; repaired sand-catcher, Penniman and State streets; repaired sand-catcher, Cannon and Water streets; paving around sand-catcher, Pope and Purchase streets; repaired two eye-holes, Rivet and First streets; repaired eye-hole, Penniman and County streets; repaired sand-catcher, Elm and Eighth streets; repaired sand-catcher, North and Water streets; repaired eye-hole, Weld and Purchase streets; repaired eye-hole, Acushnet avenue, north of Pearl street; rebuilt man-hole, Hillman and Chestnut streets; repaired sand-catcher, Kempton and Liberty streets; new man-hole, Bedford and County streets; repaired sand-catcher, Kempton and Newton streets; repaired eye-hole, First and Howland streets; repaired sand-catcher, Parker street and Shawmut avenue; filling Howland Street dock; repaired sand-catcher, Water and Rivet streets; repaired outlet to Blackmer street sewer; repaired sand-catcher, County and Bedford streets; repaired sand-catcher, Walnut street, between Fourth and Fifth streets; repaired sand-catcher, Purchase and Hazard streets; repaired eye-hole, south side Maxfield, east of Second street; repaired sand-catcher, North and Purchase streets; repaired sand-catcher, Maxfield and Purchase streets; repaired sand-catcher, Kempton and Ash streets; repaired sand-catcher, Spring and Second streets; new surface-drain, Richmond street, between Locust and	

Parker streets; repaired sand-catcher, Allen and Orchard streets; repaired sand-catcher, Water and Rivet streets; repaired eye-hole, Waverly and Page streets; repaired sand-catcher, Austin and Pleasant streets; repaired sand-catcher, Acushnet avenue and Wing street,	$11,991.90
Cleaning sand-catchers,	1,667.58
New surface drain, Allen street, from Birch street east, 780 feet of 12-inch pipe,	416.32
New surface drain, Willow street, west of Cedar, 60 feet 10-inch pipe,	21.47
New surface drain, County and Sawyer streets, 35 feet 10-inch pipe,	20.31
Vera Brook sewer, repaired at Acushnet avenue,	71.97
Durfee Street sewer, taken up and laid deeper from Mt. Pleasant street west to Wilson street, 1150 feet,	1,123.61
Arnold Street sewer, taken up and laid deeper from Ocean to Tremont street, 250 feet,	197.77
Orchard Street sewer, repaired north of Cove road,	2,774.02
	$18,284.95

RECAPITULATION.

Sewers built,	$36,022.28
General repairs,	11,991.90
Sand-catchers cleaned,	1,667.58
Stock on hand,	3,088.80
Sand-catchers built,	2,981.04
Eye-holes built,	558.76
Culverts built,	847.73
Surface drains built,	458.10
Repairing Orchard Street sewer,	2,774.02
Lowering Durfee Street sewer,	1,123.61
Repairing Vera Brook sewer,	71.97
Lowering Arnold Street sewer,	197.77
	$61,783.56

CREDITS.

Appropriations, general work,	$27,974.98
Appropriations for sewers built,	36,022.28
	$63,997.26
Expended,	61,783.56
Transfer to balance,	$2,213.70

NEW BEDFORD AND FAIRHAVEN BRIDGE.

Dr.

John B. Nicholson, draw-tender,	$600.00
Expense of committee going to other cities to look at motors,	81.55
Street Department, stock, labor, &c.,	235.32
Jethro Hillman, carpentry,	254.63
Pay-rolls,	86.75
William A. Tillinghast, lumber,	77.30
George S. Bowen, brooms and brushes,	2.80
Smith & Gurney, blacksmithing,	20.45
Sturtevant & Parker, paint,	2.30
James D. Driggs, blacksmithing,	2.25
Perry P. Jenney & Son, carpentry,	2.80
Greene & Wood, lumber,	1,302.22
S. A. Tripp, sheet-iron work, &c.,	1.70
Abraham Chase, carpentry,	3,680.44
David Duff & Son, coal,	9.00
Charles S. Paisler, cement,	14.00
	$6,373.51

Cr.

By appropriation,	$1,000.00
Special appropriations,	5,300.00
Transfer to balance,	73.51
	$6,373.51

SEWER DEPARTMENT.

INVENTORY OF PROPERTY, JANUARY 1st, 1890.

2 large tool-houses on wheels,	$350.00
10 mortar-boxes,	8.00
6 derricks, small,	90.00
3 derricks, large,	91.00
6 blocks and falls, small,	45.00
3 blocks and falls, large,	50.00
12 lanterns, 2 lantern hooks,	9.20
3 large pumps, with suction hose,	150.00
350 feet large hose,	40.00
5 sledges,	15.00
24 striking hammers,	48.00
3 drilling hammers,	6.00
115 blowing drills,	335.00
12 small drills,	6.00
2 lbs. backing and wedges,	.48
13 blast spoons,	9.00
400 feet fuse,	4.00
3 small chains,	4.50
9 stone-chains,	18.00
1 chain with rope,	.50
11 iron bars,	17.00
10 iron wedges,	3.00
10 stone-chisels,	5.00
8 stone-points,	4.00
17 long-handle shovels, round point,	8.50
100 short-handle shovels, round point,	50.00
23 hoes,	5.75
103 pick-axes,	15.00
6 mattocks,	9.00
2 trowels,	1.00
1 monkey wrench,	.50
10 dirt-pounders,	1.00
3 tampering irons,	1.50
4 axes,	2.00
2 hatchets,	1.00
2 bit-stocks and bits,	3.00
3 hand-saws,	1.50
15 wooden pails,	1.50
4 water-pails and dippers,	2.00
20 lbs. marline,	2.00
20 lbs. nails,	.80

45 arches and forms for brick sewers,	100.00
3000 feet old spruce plank,	24.00
325 feet oak plank, catch-basin covers,	26.00
18 castings, man-hole,	279.00
3 sets scuttle stones,	45.00
8 wash stones, flag,	19.20
10 covering stones for catch-basin, complete,	248.50
2160 feet akron pipe, 10-inch,	542.00
856 " " 12-inch,	282.48
736 " " 15-inch,	349.60
770 " " 18-inch,	497.42
180 " " 24-inch,	222.30
26 Ys,	75.00
3 bends, 15-inch,	6.00
10 bends, 10-inch,	14.80
5 bbls. cement,	6.00
38,500 brick,	398.47
40 lbs. dynamite,	16.00
8 coils of caps,	7.08
¾ reel connecting wire,	20.00
60 feet fuse,	.60
3 hose wrenches,	1.50
1 brick-hammer,	.50
2 wooden mallets,	.50
1 oil-stove and steamer,	4.50
2 new pump-rubbers,	5.30
1 tag-rope,	.25
3 large wedges,	1.50
1 Victor, No. 2, battery, for blasting,	25.00
1 6-inch bend,	.75
1 5-inch trap,	1 60
5 new eye-hole gratings,	25.00
1 long-handle dipper,	.50
2 galvanized iron pails,	1.50
2 large tin dippers,	1.00
400 lbs. canvas,	25.00
1 horse,	200.00
1 express wagon,	100.00
1 express harness,	20.00
4 brick-hatchets,	1.00
3 pairs rubber boots, good,	12.00
200 bushels brick-sand,	10.00
	$5,031.58

1890 — CITY DOCUMENT No. 11.

REPORT

OF THE

BOARD

OF

OVERSEERS OF THE POOR

OF THE

City of New Bedford,

FOR THE YEAR 1889.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS,
1890.

In Board of Aldermen,
January 30, 1890.

Received, ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
January 30, 1890.

Concurred.

WM. A. MACKIE,
Clerk.

Members of the Board.

ORRICK SMALLEY,
THOMAS H. KNOWLES,
WM. H. MATHEWS.

Officers of the Board.

ORRICK SMALLEY,
Chairman and Secretary.

EDWIN E. WAITE,
Physician to the Board.

ELLA F. BUCKLYN,
Clerk to the Board.

PELEG S. MACY,
Superintendent of Alms-house.

Mrs. PELEG S. MACY,
Matron of Alms-house.

Rev. GEO. T. FLANDERS,
Chaplain of Alms-house.

SAMUEL DAMMON,
Superintendent of Wood and Coal Yard.

REPORT.

To His Honor the Mayor and City Council of New Bedford:

GENTLEMEN. — We have the honor to make the third annual report of the doings of the Board of Overseers of the Poor, under the act of the Legislature passed June 22, 1886. The tables appended are a part of this report, and exhibit in detail the receipts and expenditures, and also statistical information for the year 1889. A careful examination of these tables and statements made will furnish a better knowledge of the demands made upon the department than any words of ours in way of explanation.

The poor we have with us, and in all probabilities will ever continue to have them, notwithstanding the scholastic expositions of the learned on methods of making the indigent poor self-supporting. It is of greater importance to us to know how best to ameliorate the condition of the present unfortunate poor, and make as light as possible the burden of those who bear the expenses, than it is to enlarge upon imaginary methods of relief to paupers, and the diminution of the same. The principal cause of pauperism is the use of intoxicating liquors. Remove the cause, and the problem of how to make paupers less and men self-supporting will be solved.

The Alms-house, under the supervision of the superintendent, Peleg S. Macy, Esq., is in a very satisfactory condition. Several hundred dollars will be added to the expenses of this department by the failure of the potato crop last year, and, instead of being able to sell, we were compelled to buy about five hundred bushels.

The tables appended will show the appropriations in 1889, for the Poor Department, to have been $33,000.00
Balance to credit, 2,223.20

Net expense, $30,776.80

This net expense should not be the criterion for another year's appropriation, as the recent influx of people to the city will be more sensibly realized by the Poor Department during the ensuing than in the past year.

We are well pleased with the manner in which the employees of the Board have performed their duties. And in conclusion we desire to express our thanks for your readiness to assist us in all the matters of interest to the Poor Department.

Respectfully submitted.

ORRICK SMALLEY,
THOMAS H. KNOWLES,
WM. H. MATHEWS.

FINANCIAL STATEMENT, 1889.

DR.

To amount of annual appropriation,		$30,000.00
To amount of special appropriation,		3,000.00
Received from State, for support of paupers,		3,425.05
Received from cities and towns, for support of paupers,		3,150.34
For board of soldiers,		219.00
For board of lunatics,		1,188.60
Miscellaneous,		35.00
City Alms-house credits:		
Amount from Fire Department,	$785.85	
Sale of produce,	195.48	
Truant school,	1,450.52	
Street department,	298.90	
Miscellaneous,	115.90	2,846.65
		$43,864.64

CR.

By amounts expended as per monthly audits, as follows:

MONTHS.	Outside Relief.	Lunatics and State Reform.	Cities and Towns.	Alms-house.	Totals.
January,	$2,804.98	$2,117.96	$274.64	$914.46	$6,112.04
February,	1,637.96		60.00	836.71	2,534.67
March,	1,641.28		62.00	1,045.36	2,748.64
April,	1,338.22	2,015.95	166.05	928.54	4,448.76
May,	1,740.31		75.66	787.38	2,603.35
June,	1,200.25	71.03	21.60	1,302.53	2,595.41
July,	1,267.56	2,062.46	310.27	923.85	4,564.14
August,	1,773.46		34.94	800.97	2,609.37
September,	1,559.92		13.50	843.80	2,417.22
October,	1,640.05	2,198.43	39.86	842.36	4,720.70
November,	1,599.34		66.09	1,079.88	2,745.31
December,	1,745.00		121.55	1,675.28	3,541.83
	$19,948.33	$8,465.83	$1,246.16	$11,981.12	$41,641.44

Balance to credit, $2,223.20.

EXPENDITURES IN DETAIL FOR OUTSIDE RELIEF IN 1889.

Monthly Audits.	Groceries.	Lunatic Hospitals, &c.	Cities and Towns.	Cash Orders.	Salaries and Travel.	Physician and Medicine.	Stationery and Printing.	Burials.	Boots and Clothing.	Transportation.	Horse-hire, &c.	Office Expenses.	Rents.	Board Outside.	Wood and Coal Yard.	Miscellaneous.	Totals.
January,	$876.68	$2,117.96	$274.64	$158 50	$125.01	$135.00	$2.92	$70.00	$6.90	$39.87		$1.50			$1,388.60		$5,197.58
February,	1,027.00		60.00	138.50	133.32	135.00	8.62	20.00	2.00	4.63	$2.50		$12.00		153.39	$1.00	1,697.96
March,	930.00		62.00	144.50	149.97	135.00	23.15	50.00	3.00	38.77		27.76			139.23		1,703.28
April,	762.75	2,015.95	166.05	139.50	129.52	138.00	4 60	95.00			.95				67.90		3,520.22
May,	960.50		75.66	137.50	245.20	141.00	16.25	37.00	3.75	105.21				$43.50	50.40		1,815.97
June,	626.25	71.03	21.60	142.50	134.95	136 00	37.44	62.00		12.35		1.81		.75	46.20		1,292.88
July,	652.25	2,062.46	310.27	161.00	132.01	135.00		57.00		27.30			14.00	39.00	42.00	8.00	3,640.29
August,	812.00		34.94	107.00	129.16	135.00	6.25	105.00	2.17	88.00					388.88		1,808.40
September,	706.20		13.50	139.00	132.66	135.00		194.00		14.06		30.90			208.10		1,573.42
October,	900.75	2,198.43	39.86	151.00	133.66	138.00	3.56	87.00	5.00	12.60				36.00	167.48	5.00	3 878.34
November,	544.00		66.09	132.14	133.17	135.00		93.00	2.00	53.78		1.25		20.00	485.00		1,665.43
December,	1,139.26		121.55	152.75	131.27	135.00	2.50	80.00	4.00	9.50		.50	10.00		80.22		1,866.55
	$9,937.64	$8,465.83	$1,246.16	$1,703.89	$1,709.90	$1,633.00	$105.29	$950 00	$28.82	$406.07	$3.45	$63.62	$36.00	$139.25	$3,217.40	$14.00	$29,660.32

DETAILED EXPENDITURE AT THE ALMSHOUSE, 1889.

MONTHS.	Flour & Grain.	Dry Goods and Clothing.	Beef.	Groceries, etc.	Shoes, Hats, and Leather.	Furniture and Crockery.	Hardware.	Fuel.	Repairs on Premises.	Carriages and Repairing.	Supt., Labor and Nursing.	Medicines, etc.	Oils, Paints, etc.	Miscellaneous.	Totals.
January,	$119.87	$24.05	$78.54	$132.30	$15.35	$20.35		$166.73	$19.00	$2.96	$318.36			$16.95	$914.46
February,	71.27	10.48	97 84	187.60	8.50		$25.63	84.39	10.72		312.83	$13.30	$4.80	9.35	836.71
March,	112.72	67.41	91.31	170.74	1.25	11.36	.45	30.58	88.21	94.90	321.36	30.97	5.10	19.00	1,045.36
April,	83.85	5.30	101.30	129.13	6.75	5.10		54.07	10.02		316.50			216.52	928.54
May,	118.76		80.41	179.35	5.75	10.75	33.18	9.43		23.05	318.36		2.80	5.54	787.38
June,	83.41	21.60	97.67	163.56	28.81	11.60	36.90	57.60	279.59	104.44	319.50	49.10		48.75	1,302.53
July,	89.60	31.74	100.78	160.47	36.30	11.00	26.71		12.64	12.75	421.36	10.50		10.00	923.85
August,	113.34	5.93	136.19	193.05	6.00	7.80		12.41			315.86		2.39	8.00	800.97
September,	101.96	50.65	87.74	138.02	5.95	8.87	10.10	49.33		11.99	321.50	38.46	19 23		843.80
October,	106.62	22.85	101.12	228.19		3.84		30.64	10.12		318.36	7.00	7.02	6.60	842.36
November,	91.15		103.78	191.74	4.00			355.80	16.91		316.50				1,079.88
December,	152.19	72.66	101.66	262.23	50.78	12.99	58.78	3.56	477.56	27.77	321.40	68.42	28.78	36.50	1,675.28
	$1,244 74	$312.67	$1,178.34	$2,136.38	$169.44	$103.66	$191.75	$854.54	$924.77	$277.86	$3,921.89	$217.75	$70.12	$377.21	$11,981.12

STATISTICS OF OUTSIDE RELIEF.

Gross cost of aid to persons outside of Alms-house, 1889,		$29,660.32
Receipts from various sources,		8,017.99
		$21,642 33
Amount paid for support of persons in State Lunatic Hospitals and reformatories, and in other cities and towns, chargeable to this city,		9,711.99
Leaving as net expenditure in aid of poor residing here, including State paupers, and those chargeable to other cities and towns,		$11,930.34
Number of families aided in 1889,		593
" " settlement here,	337	
" " settlement elsewhere,	86	
" " State paupers,	170	
Number of persons aided,		1,515
" " settlement here, males 267, females 474		
" " " elsewhere, males 102, females 158		
" " State paupers, males 226, females 288		
Average cost of aid to each family, yearly,		$20.11
Average cost of aid to each person, yearly,		$7.87

TRANSPORTATION.

Number of families sent to their homes,	37
Number of persons sent to their homes,	72
Number of persons sent to Tewksbury Alms-house,	11

BURIALS.

Males 40, females 51,	91

INSANE.

Number of insane at asylums during the year:		
Males 28, females 35,		63
Remaining at city's expense, December 31, 1889,		45
At Taunton Lunatic Hospital,	41	
At Westborough Insane Hospital,	2	
At Worcester Insane Asylum,	1	
At Worcester Lunatic Hospital,	1	

STATE REFORM SCHOOLS.

Number supported during the year,	0

PAUPERS AIDED ELSEWHERE,

But having settlement here (exclusive of lunatics),	families 29, persons 45
Amount paid for their support in 1889,	$1,246.16

ALMS-HOUSE REGISTER.

Number remaining December 31, 1888, 65

Months.	Admitted.	Discharged.	Remaining.
January,	2	2	65
February,	11	4	72
March,	14	16	70
April,	3	10	63
May,	10	3	70
June,	8	7	71
July,	4	6	69
August,	11	14	66
September,	6	5	67
October,	13	5	75
November,	8	9	74
December,	4	7	71

Whole number during the year,	159
Discharged during the year,	88
Remaining December 31, 1889,	71
Average daily number,	70
Number of deaths during the year,	11
Males 7, females 4.	
Number sent to Tewksbury from Alms-house,	1

PRODUCTS OF FARM FOR 1889.

Hay,	106 tons.
Straw,	2 "
Corn,	21 bushels.
Potatoes,	66 "
Beets,	1,080 pounds.
Carrots,	4,425 "
Onions,	21 bushels.
Dried beans,	9 "
String beans,	8 "
Peas,	18 "
Turnips,	221 "
Pumpkins and squashes,	1,740 pounds.
Sweet corn,	330 doz. ears.
Cabbages,	1,820 heads.
Milk,	27,571 quarts.
Veal,	336 pounds.
Pork,	7,008 "

SUMMARY.

Gross expenditure for the year,	$11,981.12
Credits,	2,846.65
	$9,134.47
Average yearly expense of each inmate, including truants, and persons committed to the Work-house, 24,	$97.17
Average monthly expense,	8.09
Average weekly expense,	1.86

WORK-HOUSE REGISTER.

Whole number December 31, 1888, 17

Months.	Admitted.	Discharged.	Remaining.
January,	2	4	15
February,		3	12
March,	1	1	12
April,	2	1	13
May,	3	4	12
June,	6	2	16
July,		3	13
August,	5	5	13
September,	3	3	13
October,	1	3	11
November,	1	4	8
December,	1	2	7

Whole number during the year,	42
Discharged during the year,	35
Remaining December 31, 1889,	7
Average daily number,	11

TRUANT SCHOOL REGISTER.

Number remaining December 31, 1888, 13

Months.	Admitted.	Discharged.	Remaining.
January,	1		14
February,	4	1	17
March,		2	15
April,	2	2	15
May,		2	13
June,			14
July,		2	11
August,			11
September,	1		12
October,			12
November,	1	1	12
December,			12

Whole number during the year,	22
Discharged during the year,	10
Remaining December 31, 1889,	12
Average daily number,	13

REPORT

OF THE

PHYSICIAN TO THE BOARD OF OVERSEERS OF THE POOR,

FOR THE YEAR ENDING DECEMBER 31, 1889.

GENTLEMEN: — Up to the close of December, 1889, your physician has made 1827 house calls, received 620 patients at his office, has visited the Alms-house 105 times, has attended 13 cases of confinement, and 29 patients have died.

In cases where more than one member of a family was sick at the same time, only one visit was registered; therefore the total number of patients treated is considerably more than stated above.

During the year, there were at the Almshouse 11 deaths and 4 births.

It is estimated that there will be a reimbursement of about $600 to the city for medical services rendered to persons having settlements in other cities and towns and State, not chargeable to the city of New Bedford, thereby reducing the actual cost of the physician to the city to about $1,000.

Thanking the Board for its courtesies and kindness, your physician respectfully submits his report.

CHARLES A. B. PETERSON, M. D.

January 7, 1890.

REPORT

OF THE

Superintendent of the City Wood and Coal Yard.

GENTLEMEN: — There has been received at the yard, during the year ending December 31, 1889, 138 cords 3 feet 3 inches of wood, and 139 tons 1,685 pounds of coal. Have delivered 276 tons of coal, and 82 cords 2 feet 11 inches of wood.

There has been sawed and split during the year, 137 cords of wood.

All of which is respectfully submitted.

SAMUEL DAMMON.

1890 — CITY DOCUMENT No. 12.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF BURIAL GROUNDS,

FOR 1889.

NEW BEDFORD:
E. ANTHONY & SONS, CITY PRINTERS,
1890.

In Board of Aldermen,
March 13, 1890.

Received and ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
3 mo. 13, 1890.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

To the Hon. Walter Clifford and the City Council of New Bedford:

GENTLEMEN.—I herewith submit my third annual report.

During the past year my work has been mainly directed to repairing, grading, widening and graveling the avenues in the old parts of Rural and Oak Grove cemeteries; repairs on which have been neglected for years.

About 2,000 feet of paved gutters have been laid, which effectually prevents the washing away of the avenues where they have been laid.

No new ground has been cleared in Oak Grove during the past year, but about three acres have been cleared in Rural.

From January 1, 1889, to January 1, 1890, lots to the value of $1,500 were sold in Oak Grove, and $1,440 in Rural during the same period.

There were 212 interments in Oak Grove, and 215 in Rural cemetery, from January 1, 1889, to January 1, 1890; total, 427.

January 1, 1889, there were 91 lots under "perpetual care" of the city. January 1, 1890, there were 123, a gain of 32. The total amount of cemetery funds January 1, 1889, was $7,214.93. January 1, 1890, it amounted to $10,349.93. This fund, kept forever intact, and the interest alone applied to the care of lots, proves of great advantage to those owners who have availed themselves of its provisions, by depositing money with the city, in the knowledge that their lots will now and forever be taken care of.

Pine Grove and the old cemetery on South Second street have each been thoroughly cleared of grass and bushes twice during the past year.

Several times during the past year the urgent necessity of a chapel has been felt in each cemetery (Oak Grove and Rural). A small chapel should be built, to hold services in when bodies are brought from away for burial.

Much remains to be done before our cemeteries will be in a condition to which a city of our size and wealth is entitled. New stone walls are needed in both Oak Grove and Rural cemeteries; and water mains should be extended this year in Rural cemetery. Nothing was done last year in regard to extending them. The small amount of money appropriated annually, together with the amount received for sale of lots, is barely sufficient to do the necessary work of each season, and insufficient to do work which requires large outlay.

Respectfully submitted.

WILLIAM SANDERS,

Supt. of Burial Grounds.

1890 — CITY DOCUMENT No. 13.

Annual Report

OF THE

Inspector of Milk and Provisions,

AND

Animals Intended for Slaughter,

FOR THE

YEAR ENDING DEC. 31. 1889.

NEW BEDFORD:
E. Anthony & Sons, City Printers.
1890.

In Board of Aldermen,
January 16, 1890.

Received, ordered printed in the City Documents and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
1 mo. 16, 1890.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

NEW BEDFORD, Dec. 31st, 1889.

To His Honor the Mayor and the Board of Aldermen of the City of New Bedford:

GENTLEMEN. — The report of this office, for the year ending December 31st, 1889, is herewith respectfully submitted.

The main question occupying the attention of this office, and, to my satisfaction, that of our farmers and producers of milk, is the procuring for the citizens of New Bedford pure, wholesome milk. There is no person who realizes the value and great importance of pure milk, both as regards its food value and as a protection against disease, more especially among babes and young children, than the inspector. His main duty is to procure this end by whatever method, provided it be honest and legitimate, that in his own experience and that of others who know the value of what they suggest, seems under the circumstances the most promising. The office was not created, as many over-zealous individuals appear to teach, for the mere and exclusive purpose of issuing complaints, but more particularly, if not entirely, for the purpose of securing for the masses pure and rich milk; and the actions of the Inspector have been governed by this motive.

The per cent. of adulterated samples of milk taken by the Inspector of New Bedford in the year 1887 was 22, while the per cent. of adulterated samples in the same number of samples taken in the year 1889 was only $2\frac{1}{2}$,

and I think that these facts and figures bear out my statement that the dealers and producers are equally interested in furnishing pure milk, and it is a fact that no such small per cent. of adulteration exists in the milk supply in any other city in this country.

The office is open at all hours, and is visited by the public in all matters relating to the question of milk and provisions, such as bringing samples for investigation and making complaints on various matters; as I never visit dwellings, the only information I have of the character of the family supply is from this source and investigation. No person need be in doubt about the purity of their milk, when a visit to the office provided by law for the use of the public will give all needed information and assistance. I have yet to receive the first complaint from any physician, and I have yet to meet a sample of milk which would produce sickness, or which was adulterated in any other form than by skimming and watering.

OPERATIONS OF THE YEAR 1889.

Milk licenses granted for wagons,	174 at .50,	$87.00
" registers " " stores,	195 at .50,	97.50
Oleomargarine licenses,	9 at .50,	4.50
" registers,	5 at .50,	2.50
Totals,	383	$191.50

Number of visits made and samples of milk inspected, 306.

Have also seized, condemned and destroyed as being unfit for food, 605 lbs. of fish, 975 lbs. of beef, 6 carcasses of "bob" veal, 1 large load of watermelons; have also killed one cow as unfit for dairy purposes and quarantined several others while sick; have also visited and inspected the premises and herds of the most of our milk producers, and have found very little to complain of and much to commend.

EXPENSES.

Salary,	$530.36
Office rent,	116.23
Electric lights,	33.95
Telephone,	39.00
Advertising special notices in daily papers,	25.07
Badge,	5.00
Milk analysis,	5.00
Milk license book,	12.50
50 new milk cans and box,	8.50
Moving furniture to present office.	3.00
J. V. Bancroft, sprinkling street 26 weeks at .40,	10.40
T. S. Corson for coal,	6.50
Stationery, ink, pens, etc.,	1.51
Door mat,	1.75
Carpentering and labor,	2.50
Curtains for windows,	9.24
Total,	$810.51
The expense of the office in 1887 was	$1,665.55
" income " "	100.00
Total expense to city,	$1,565.55
The expense of the office in 1889 was	$810.51
" income " "	191.50
Total expense to city,	$619.01
Expense of 1887,	$1,565.55
Expense of 1889,	619.01
Difference in expense to the city,	$946.54

Respectfully submitted.

DR. D. C. ASHLEY,

Inspector of Milk and Provisions, etc.

ORDINANCES.

In the Year Eighteen Hundred and Ninety.

AN ORDINANCE

To Amend Section 2 of Chapter 26 of the City Ordinances.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. Section 2 of Chapter 26 of the City Ordinances is hereby amended by striking out the last clause thereof and inserting in place thereof the following: "and such contracts may be made at such times as said Committee shall deem advisable and shall expire not more than one calendar year from the date thereof."

Section 2. This Ordinance shall take effect upon its passage.

In Board of Aldermen, January 16, 1890.
Passed to be ordained.
WALTER CLIFFORD, Mayor.

In Common Council, January 16, 1890.
Passed to be ordained.
WILLIAM A. TUCKER, President.

Approved January 18, 1890.
WALTER CLIFFORD, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year Eighteen Hundred and Ninety.

AN ORDINANCE

Amending Chapter 12 of the City Ordinances.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. Section two (2) of Chapter 12 of the City Ordinances is hereby amended so as to read as follows, viz.: Section 2. For the purpose of securing the City of New Bedford from damage by fire, certain fire limits are hereby established, the boundaries of which are as follows: "Commencing at a point in the channel of the Acushnet river formed by the extension of the center line of the Nash Road, so called, thence westerly in said extended line and in the center of said Nash Road, to the boundary line between the City of New Bedford and the town of Dartmouth; thence southerly along said boundary line to its terminus at Clark's Cove; thence by the waters of Clark's Cove, Buzzard's Bay, and Acushnet river, to the most easterly point of Fish Island; thence northerly in a straight line to the point of beginning.

Section 2. This Ordinance shall take effect upon its passage.

In Common Council, June 12, 1890.
Passed to be ordained.
WILLIAM A. TUCKER, President.

In Board of Aldermen, June 26, 1890.
Passed to be ordained.
WALTER CLIFFORD, Mayor.

Approved June 26, 1890.
WALTER CLIFFORD, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year Eighteen Hundred and Ninety.

AN ORDINANCE

Establishing the Office of City Forester.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. As soon as may be after the passage of this Ordinance, the City Council shall, in joint convention, elect in such manner as may be then determined, a person who shall have the care of shade trees and trees belonging to the city, and perform the duties specified by law in relation to such office, under the direction of the Superintendent of Public Works. He shall be called the City Forester. He shall hold his office until his successor is elected and qualified, as hereinafter provided.

Annually hereafter, in the month of April, the City Council shall, in like manner, elect such officer, to hold office until his successor is elected and qualified. The City Forester shall receive such compensation as the City Council may determine.

Section 2. This Ordinance shall take effect upon its passage.

In Common Council, July 10, 1890.
Passed to be ordained.
WILLIAM A. TUCKER, President.

In Board of Aldermen, July 10, 1890.
Passed to be ordained.
WALTER CLIFFORD, Mayor.

Approved July 10, 1890.
WALTER CLIFFORD, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.